

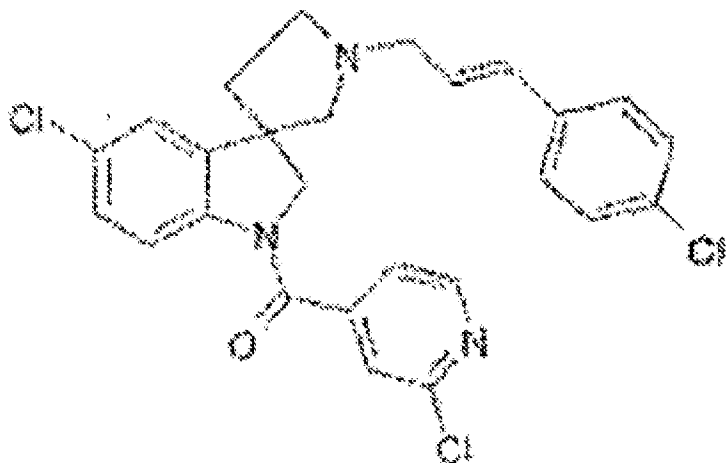
Attachment: SEARCH FOR 10581174.docx

Case/Application number: **10581174** PALM
Priority App. Filing Date: **12/12/03**
Format for Search Results: **SCORE & EMAIL**

Meaning of unusual acronyms or initialisms:

Identify the novelty:

STRUCTURE SEARCH please search compound III-49 (see attached word document)



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USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2011

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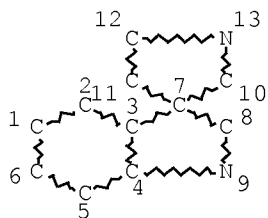
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L7 STR



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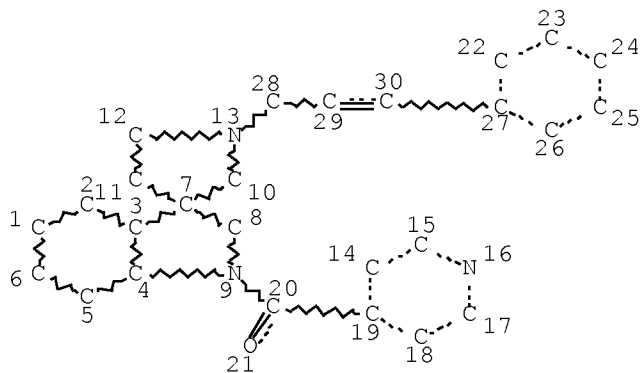
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L9 22054 SEA FILE=REGISTRY SSS FUL L7

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L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:588986 HCAPLUS Full-text

DOCUMENT NUMBER: 143:115437

TITLE: Preparation of spiroindolines as pesticides

INVENTOR(S): Cassayre, Jerome; Molleyres, Louis-Pierre; Maienfisch, Peter; Cederbaum, Fredrik

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 121 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|--|--|------------|
| WO 2005061512 | A1 | 20050707 | WO 2004-IB4070 | 20041209 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | |
| RW: | | | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | |
| EP 1697376 | A1 | 20060906 | EP 2004-801364 | 20041209 |
| EP 1697376 | B1 | 20080618 | | |
| R: | | | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS | |
| BR 2004016982 | A | 20070221 | BR 2004-16982 | 20041209 |
| JP 2007516252 | T | 20070621 | JP 2006-543655 | 20041209 |
| AT 398620 | T | 20080715 | AT 2004-801364 | 20041209 |
| ES 2308278 | T3 | 20081201 | ES 2004-801364 | 20041209 |
| IN 2006CN02087 | A | 20070706 | IN 2006-CN2087 | 20060612 |
| US 20090042859 | A1 | 20090212 | US 2008-581174 | 20081007 |
| PRIORITY APPLN. INFO.: | | | GB 2003-28907 | A 20031212 |
| | | | WO 2004-IB4070 | W 20041209 |
| OTHER SOURCE(S): | | CASREACT 143:115437; MARPAT 143:115437 | | |
| GI | | | | |

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [W = (R4)n; n = 0-4; X = (CRa2)p; Z = (CRa2)q; Ra = H, halo, OH, etc.; p = 0-6; q = 0-6; Y = single bond, CO, CS, etc.; R1 = H, alkyl, alkoxy carbonyl, etc.; R2, R3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; R8 = alkyl, alkenyl, alkynyl, etc.] and N-oxides were prepd.. For example, N-benzoylation of indole II with 2-chloroisonicotinoyl chloride afforded spiroindoline III. In diamondback moth protection assays, 2-examples of compds. I at 18.2 ppm exhibited at least 80% protection after 5-days.

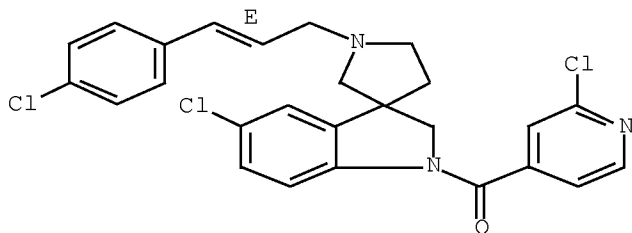
IT 857677-42-0P 857677-43-1P

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of spiroindolines as pesticides)

RN 857677-42-0 HCAPLUS

CN Methanone, [5-chloro-1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1,2-dihydrospiro[3H-indole-3,3'-pyrrolidin]-1-yl](2-chloro-4-pyridinyl)-
(CA INDEX NAME)

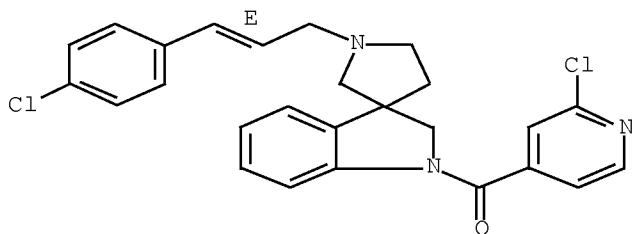
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RN 857677-43-1 HCAPLUS

CN Methanone,
[1'-[(2E)-3-(4-chlorophenyl)-2-propen-1-yl]-1,2-dihydrospiro[3H-indole-3,3'-pyrrolidin]-1-yl](2-chloro-4-pyridinyl)- (CA INDEX NAME)

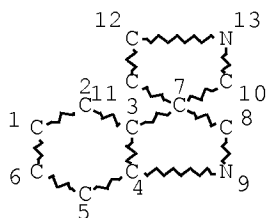
Double bond geometry as shown.



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|----------------------|---|--|
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| REFERENCE COUNT: | 4 | THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT |

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L7 STR



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DEFAULT ECLEVEL IS LIMITED

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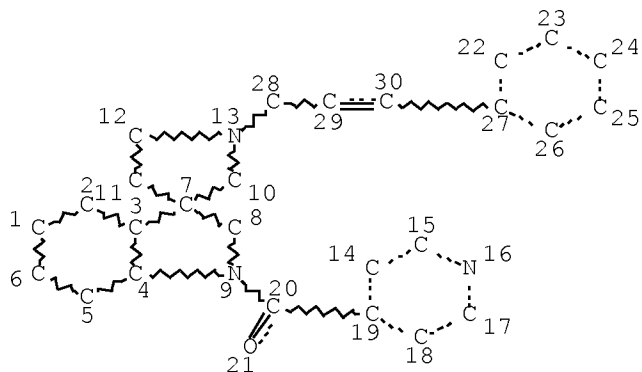
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L9 22054 SEA FILE=REGISTRY SSS FUL L7

L10 STR



NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE

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L12 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L11

L13 22052 SEA FILE=REGISTRY ABB=ON PLU=ON L9 NOT L11

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L20 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND L14

L21 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 NOT L12

L22 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (AY=<2003 OR PY=<2003

OR PRY=<2003 OR PD=<JANUARY 12, 2004)

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L22 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1998:688182 HCAPLUS Full-text

DOCUMENT NUMBER: 130:129822

TITLE: Protection of native Sichuan crude drugs from mildewing and moth-eating by ^{60}Co - γ ray radiation

AUTHOR(S): Zhong, Hailuo; Dong, Yu; Dong, Yuning; Chen, Kewen; Liu, Junying; Gong, Jianhua

CORPORATE SOURCE: Sichuan Cancer Institute, Chengdu, 610041, Peop. Rep. China

SOURCE: Zhongguo Yaoxue Zazhi (Beijing) (1998), 33(9), 520-523
CODEN: ZYZAEU; ISSN: 1001-2494

PUBLISHER: Zhongguo Yaoxuehui

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB The protection of native Sichuan crude drugs from mildewing and moth-eating by ^{60}Co - γ ray radiation was studied. Seven native Sichuan crude drugs were selected as samples to define the optimal radiation dose. The effects of radiation on protecting the medicines from mildewing and moth-eating were determined according to the growth rate of microbes, and the changes in morphol., toxicity and main active fractions were studied. The results showed that the morphol., toxicity and main active fractions of the samples were not changed after radiation with 8 000 Gy, which was the most ED for protecting the samples from mildewing and moth-eating. The radiation with ^{60}Co - γ ray was an economical, safe and effective way to protect the native Sichuan crude drugs from mildewing and moth-eating.

IT 76-66-4, Rhynchophylline 6859-01-4

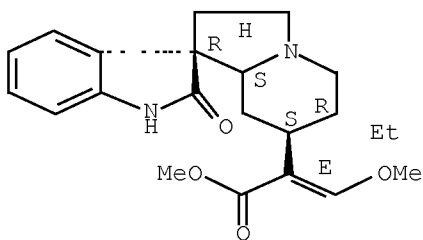
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protection of native Sichuan crude drugs from mildewing and moth-eating by ^{60}Co - γ ray radiation)

RN 76-66-4 HCAPLUS

CN Spiro[3H-indole-3,1'(5'H)-indolizine]-7'-acetic acid,
6'-ethyl-1,2,2',3',6',7',8',8'a-octahydro- α -(methoxymethylene)-2-oxo-
, methyl ester, ($\alpha E, 1'R, 6'R, 7'S, 8'aS$)- (CA INDEX NAME)

Absolute stereochemistry.

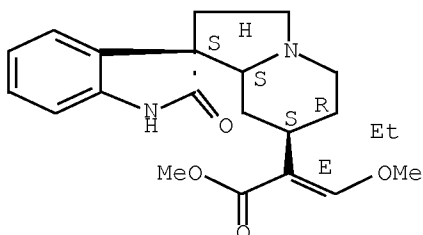
Double bond geometry as shown.



RN 6859-01-4 HCAPLUS

CN Spiro[3H-indole-3,1'(5'H)-indolizine]-7'-acetic acid,
6'-ethyl-1,2,2',3',6',7',8',8'a-octahydro- α -(methoxymethylene)-2-oxo-
, methyl ester, (α E,1'S,6'R,7'S,8'aS)- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L22 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1991:203896 HCAPLUS Full-text

DOCUMENT NUMBER: 114:203896

ORIGINAL REFERENCE NO.: 114:34304h,34305a

TITLE: Fate of plant-derived secondary metabolites in three
moth species (*Syntomis mogadorensis*, *Syntomeida*
epilais, and *Cretonotos transiens*)

AUTHOR(S): Wink, Michael; Schneider, Dietrich

CORPORATE SOURCE: Inst. Pharm. Biol., Univ. Heidelberg, Heidelberg,
D-6900, Germany

SOURCE: Journal of Comparative Physiology, B: Biochemical,
Systemic, and Environmental Physiology (1990),
160(4), 389-400

CODEN: JPBPDJ; ISSN: 0174-1578

DOCUMENT TYPE: Journal

LANGUAGE: English

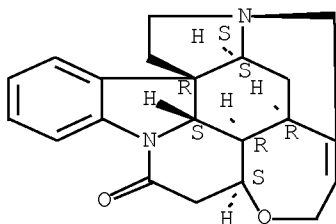
AB Larvae of 3 moth species were compared with respect to strategies used to cope with secondary metabolites (allelochems.) present in their diet. *Syntomeida epilais* is monophagous and accepted only oleander (which contains cardenolides, CG). CG were detected as stored products in the larvae and also in the feces and exuviae. Pure CG (digoxin and gitoxin), which do not occur in oleander, fed on oleander leaves were sequestered as the oleander, CG. *Syntomis mogadorensis* is polyphagous: given a choice larvae avoided plants with a high load of allelochems. Upon shortage of preferred plants they ate a wide variety of plants which contain alkaloids, terpenes, or phenolics. Of these allelochems., alkaloids and CG were mainly recovered in the feces and only minute fractions in the larvae. *Cretonotos transiens* larvae behaved similarly to *Syntomis* in terms of polyphagy and non-resorption. However, the larvae took up and stored pyrrolizidine alkaloids (PA), such as heliotrine selectively. *Cretonotos* is thus polyphagous (a generalist) but also a PA-specialist which exploits PA as defensive agents, as a morphogen for the male pheromone gland, and as a precursor for the male pheromone.

IT 57-24-9, Strychnine 357-57-3, Brucine

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

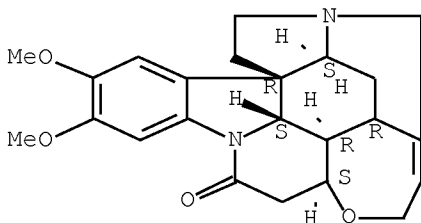
(feeding deterrence by, in moth)
 RN 57-24-9 HCAPLUS
 CN Strychnidin-10-one (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 357-57-3 HCAPLUS
 CN Strychnidin-10-one, 2,3-dimethoxy- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
 RECORD (11 CITINGS)

L22 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1982:195063 HCAPLUS Full-text
 DOCUMENT NUMBER: 96:195063
 ORIGINAL REFERENCE NO.: 96:32093a,32096a
 TITLE: Biological evaluation of the effect of some
 chemosterilants on the propagating potential of
 Laspeyresia funebrana Tr. (Tortricidae; Lepidoptera)
 AUTHOR(S): Velcheva, N.
 CORPORATE SOURCE: Inst. Plant Prot., Kostinbrod, Bulg.
 SOURCE: Gradinarska i Lozarska Nauka (1981), 18(4), 9-17
 CODEN: GRLNA9; ISSN: 0436-2624
 DOCUMENT TYPE: Journal
 LANGUAGE: Bulgarian
 GI



AB Contacting newly hatched 2nd-generation Tortricid plum moths (*L. funebrana*) males with surfaces treated with 1% Dimatif (I) [14465-96-4] or 0.5% Thiophosphamide (II) [52-24-4] gave a complete sterilization without affecting longevity or copulation vigor. The males sterilized with I induced egg sterility more effectively than did those sterilized with II. Males sterilized with I competed successfully with the normal ones in fertilizing females only at a ratio of 10:1:1 (sterilized males:nonsterilized males:females, resp.) and induced a 93.21% egg sterility. The average number of copulations of one male equals 3.71, while the maximum one is 10. The correlation coefficient between the copulation frequency rate and the average longevity of the males is 0.65. Since the maximum number of copulations was recorded during the 2nd day after the butterflies had emerged, males should be treated and released to control the natural population at the 1st day after emergence. Dietary administration of 0.1% vinblastine [865-21-4] sterilized males by 23.38%, and sterilized females by 99.35% by inhibition of egg formation. Ftorafur, citonal and citembena were ineffective, whereas dichlorodiethylhydrazine [81661-97-4] shortened the male life span from 11 to 2.33 days.

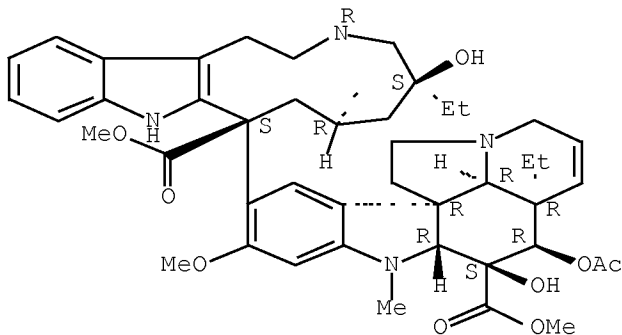
IT 865-21-4

RL: BIOL (Biological study)
(*Cydia funebrana* sterilization by)

RN 865-21-4 HCAPLUS

CN Vincalukoblastine (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L22 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1978:487495 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 89:87495

ORIGINAL REFERENCE NO.: 89:13369a,13372a

TITLE: Reaction of surface lamella of moth spermatozoa to vinblastine

AUTHOR(S): Friedlander, Michael; Gershon, Janine

CORPORATE SOURCE: Dep. Biol., Ben Gurion Univ., Beer Sheva, Israel

SOURCE: Journal of Cell Science (1978), 30, 353-61

CODEN: JNCSAI; ISSN: 0021-9533

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Previous ultrastructural studies indicating that the laciniate appendages (laminar structures covering the surface of moth sperm) of warehouse moths (*Ephestia cautella*) may be intracellular derivs. of transient microtubules found in the elongating spermatids of these insects were confirmed in present studies in which testes of the warehouse moth were treated in vivo with vinblastine sulfate. Solns. containing 10-5M vinblastine caused the laciniate appendages to become poorly resolved, and at 10-3M they disappeared. This concentration-dependent response of the appendages to vinblastine resembles that of tubulin-containing structures.

IT 865-21-4

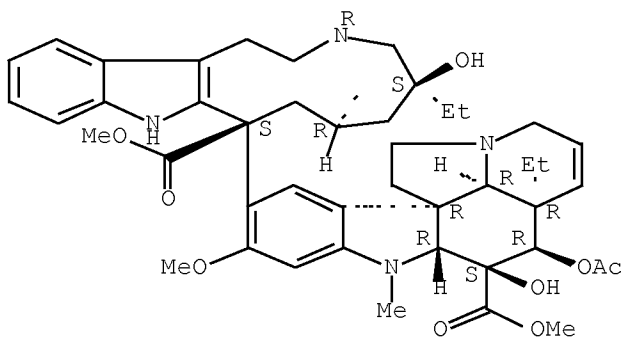
RL: BIOL (Biological study)

(sperm surface lamella response to, in warehouse moth)

RN 865-21-4 HCAPLUS

CN Vincalukoblastine (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
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L22 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1973:413987 HCAPLUS Full-text

DOCUMENT NUMBER: 79:13987

ORIGINAL REFERENCE NO.: 79:2243a,2246a

TITLE: Origin and protective function of alkaloids in plants.
I. *Protoparce sexta*, an insect which is tolerant to a broad spectrum of alkaloids

AUTHOR(S): Nowacki, Edmund; Waller, George R.

CORPORATE SOURCE: Dep. Biochem., Oklahoma State Univ., Stillwater, OK, USA

SOURCE: Flora (Jena) (1973), 162(1-2), 108-17

CODEN: FLRABG; ISSN: 0367-2530

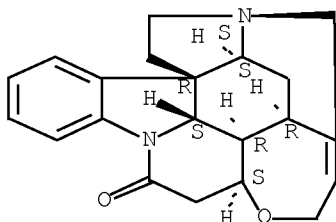
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Larvae of the tobacco hawk moth, *P. sexta*, grew normally when fed leaves of *Lycopersicon*, *Datura*, and *Nicotiana*. They also ate tomato leaves infiltrated with certain alkaloids. Strychnine [57-24-9] and ricinine [524-40-3] were lethal, sparteine [90-39-1] killed 2 of 3 larvae, and methylcytosine [554-01-8] was harmless. Leaves of alkaloid-containing non-Solanaceae plants were not eaten. Most of the ingested alkaloids were accounted for in the feces, and only traces could be found in the larval bodies.

IT 57-24-9
 RL: PRP (Properties)
 (toxicity of, to tobacco hawk moth)
 RN 57-24-9 HCAPLUS
 CN Strychnidin-10-one (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L22 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1910:12999 HCAPLUS Full-text

DOCUMENT NUMBER: 4:12999

ORIGINAL REFERENCE NO.: 4:2339b-g

TITLE: The Influence of Strychnine-containing Food upon
 Insects

AUTHOR(S): Juckenack, A.; Griebel, C.

SOURCE: Zeitschrift fuer Untersuchung der Nahrungs- und
 Genussmittel sowie der Gebrauchsgegenstaende (1910),
 19, 571

CODEN: ZNGEA2; ISSN: 0372-9419

DOCUMENT TYPE: Journal

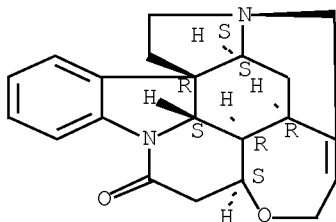
LANGUAGE: Unavailable

AB Strychnine has an unfavorable effect on micro-organisms and in a tincture for killing ~~moths~~ the strychnine acts as a preservative and not as a poison for the ~~moths~~ and their caterpillars. The first experiment was for the purpose of determining whether a ~~moth~~ tincture prepared with an intensely bitter, but relatively non-poisonous material was as active after the addition of strychnine as before, and whether the tincture was more active When freshly prepared. Pieces of wool were impregnated with the different tinctures and after drying introduced into square boxes covered with wire gauze. In a third box was placed pieces of impregnated fabric, together with a piece free from any sort of tincture, in order to observe whether the ~~moth~~ would avoid the impregnated pieces when searching for a place to lay its eggs. During the flight the greatest number possible almost exclusively *Linea pellionella* L. were caught alive and distributed among the boxes. In the autumn of the same year an exam. of the pieces of wool showed them all to be ~~moth~~-eaten, but it was remarkable that the unimpregnated piece had been the least attacked. The ~~moth~~ was unable to avoid the impregnated fabric and the caterpillar was not killed by the strychnine. The amount of strychnine in the tincture was 0.5%. The effect of the strychnine was observed upon the miller (*Ephestia kuhmilla*) and on a small beetle (*Anabium paniceum* L.). I. 50 grams meal were saturated with an alc. solution of 0.05 g. strychnine nitrate and dried over the steam bath. The meal was placed in an Erlenmeyer

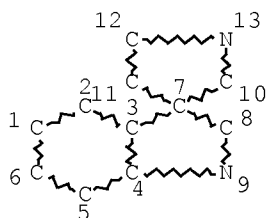
flask and 12 millers added. After awhile it was noticed that the young caterpillars were influenced unfavorably, they developed slowly and did not attain their normal size. Those which survived, however, went into the pupal state and came out as normal millers. II. 50 g. barley were treated with an aqueous solution of 0.05 g. strychnine nitrate, dried, placed in an Erlenmeyer flask and twelve beetles added. The beetles throve on the food and multiplied faster than those in a flask containing normal grain. The larval excrement was carefully separated and on examination was found to contain strychnine, showing that the alkaloid had passed unchanged through the insect's body.

IT 57-24-9, Strychnine
 (effect on insects)
 RN 57-24-9 HCAPLUS
 CN Strychnidin-10-one (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



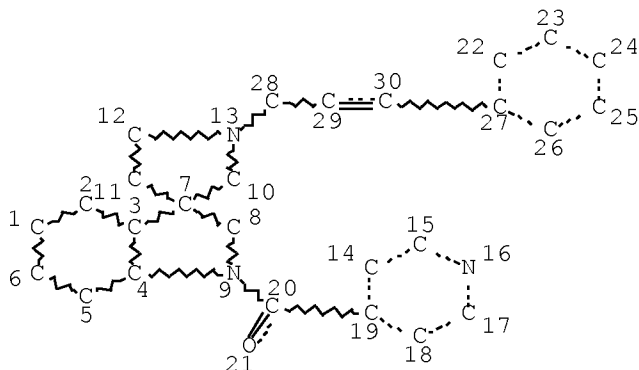
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STEREO ATTRIBUTES: NONE
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 L20 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND L14
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 L22 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (AY=<2003 OR PY=<2003
 OR PRY=<2003 OR PD=<JANUARY 12, 2004)
 L23 72 SEA FILE=HCAPLUS ABB=ON PLU=ON CASSAYRE J?/AU
 L24 37 SEA FILE=HCAPLUS ABB=ON PLU=ON MOLLEYRES L?/AU
 L25 163 SEA FILE=HCAPLUS ABB=ON PLU=ON MAIENFISCH P?/AU
 L26 76 SEA FILE=HCAPLUS ABB=ON PLU=ON CEDERBAUM F?/AU
 L27 49 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND (L24 OR L25 OR L26)
 L28 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND (L25 OR L26)
 L29 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND L26
 L30 2 SEA FILE=HCAPLUS ABB=ON PLU=ON (L23 OR L24 OR L25 OR L26)
 AND (L12 OR L14)
 L31 53 SEA FILE=HCAPLUS ABB=ON PLU=ON (L27 OR L28 OR L29 OR L30)
 L32 52 SEA FILE=HCAPLUS ABB=ON PLU=ON L31 NOT (L12 OR L22)

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L32 ANSWER 1 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:1036626 HCAPLUS Full-textTITLE: Synthesis and biological activity of spiroindoline
N-oxidesAUTHOR(S): Maienfisch, Peter; Roberts, Richard S.; Cassayre,
Jerome; Molleyres, Louis-Pierre; Winkler, Tammo;
Hillesheim, Elke

CORPORATE SOURCE: Syngenta Crop Protection AG, Basel, CH-4332, Switz.
SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-137. American Chemical Society: Washington, D. C.
CODEN: 69OLKE
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English
AB Syngenta researchers have recently discovered a new class of exploratory insecticides active against a wide range of lepidopteran pests - the spiroindolines. In order to alter the physico-chemical properties of the lead compound SYN876, such as lipophilicity, basicity and photostability, we designed and synthesized the spiroindolines-N-oxides. This presentation will report the synthesis, insecticidal activity, properties and structure-activity trends of this novel spiroindoline subclass.

L32 ANSWER 2 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:1036625 HCAPLUS Full-text
TITLE: Effect of halogen and trifluoromethyl substituents on the biological activity of spiroindolines
AUTHOR(S): Maienfisch, Peter; Cassayre, Jerome Cassayre; Molleyres, Louis-Pierre; Roberts, Richard S.; Hughes, Dave J.; Hillesheim, Elke
CORPORATE SOURCE: Syngenta Crop Protection AG, Basel, CH-4002, Switz.
SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-136. American Chemical Society: Washington, D. C.
CODEN: 69OLKE
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English
AB Spiroindolines are a recently discovered class of insecticides active against a wide range of lepidopteran pests. As part of our optimization program we investigated the effect of halogen and trifluoromethyl substituents on the spiroindoline core (R1), the cinnamyl moiety (R2) and the pyridyl group (R3). This presentation will report the synthetic methodol. applied to the preparation of our target compds. as well as the biol. activity and structure-activity relationships of halogenated and trifluoromethyl substituted spiroindolines.

L32 ANSWER 3 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:1036624 HCAPLUS Full-text
TITLE: Discovery of spiroindolines: A new class of insecticides with a novel mode of action
AUTHOR(S): Cassayre, Jerome; Maienfisch, Peter; Roberts, Richard S.; Worthington, Paul A.; Hughes, Dave J.; Molleyres, Louis-Pierre; Cederbaum, Fredrik; Hillesheim, Elke; Sluder, Ann; Earley, Fergus; Shah, Sheetal
CORPORATE SOURCE: Syngenta Crop Protection AG, Basel, CH-4002, Switz.
SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-135. American Chemical Society: Washington, D. C.
CODEN: 69OLKE

DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English

AB Substituted spiro[indoline-3,4'-piperidine] compds. (spiroindolines) are a recently discovered class of insecticides which act at the vesicular acetylcholine transporter (VACHT). Our initial optimization program resulted in the discovery of SYN876, a new exploratory insecticide for the control of lepidopteran pests. This presentation will describe the discovery, optimization, synthesis, biol., mode of action and some structure-activity relationships of these novel spiroindoline compds.

L32 ANSWER 4 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:1036519 HCAPLUS Full-text

TITLE: Design, synthesis, and properties of acyclic spiroindoline insecticides

AUTHOR(S): Maiefisch, Peter; Cassayre, Jerome; Cederbaum, Fredrick; Corsi, Camilla; Molleyres, Louis-Pierre; Pitterna, Thomas; Hillesheim, Elke

CORPORATE SOURCE: Crop Protection Research, Syngenta Crop Protection AG, Basel, CH-4002, Switz.

SOURCE: Abstracts of Papers, 242nd ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), AGRO-27. American Chemical Society: Washington, D. C.
CODEN: 69OLKE

DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English

AB Spiroindolines are a recently discovered class of insecticides which originated from a weak screening hit. A initial optimization program led to the discovery of SYN876, a new exploratory insecticide for the control of lepidoptera. This talk will review the evolution of this area and focus specifically on the design, synthesis, insecticidal activity, and structure-activity trends of acyclic analogs of SYN876. This work resulted in the identification of SYN380 - a compound with improved activity against lepidopteran pests.

L32 ANSWER 5 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2011:50378 HCAPLUS Full-text

DOCUMENT NUMBER: 154:158481

TITLE: Preparation of piperidine derivatives as insecticides

INVENTOR(S): Cassayre, Jerome Yves; Pitterna, Thomas; Corsi, Camilla; Maiefisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 51pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|---|----------|-----------------|----------|
| WO 2011003684 | A1 | 20110113 | WO 2010-EP57907 | 20100607 |
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 PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV,
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 NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ,
 TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

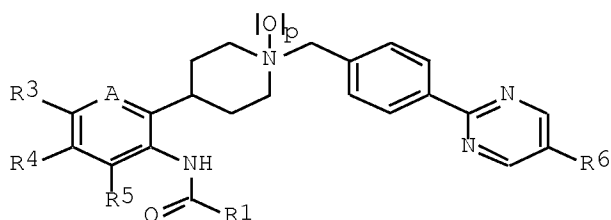
EP 2009-164662

A 20090706

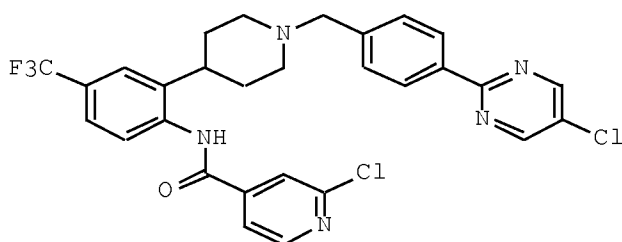
OTHER SOURCE(S):

MARPAT 154:158481

GI



I



II

AB The title compds. I [A = CR₂ or N; p = 0-1; R₁ = (un)substituted pyrid-4-yl; R₂ = H, halo, haloalkyl, haloalkoxy; R₃, R₄ = H, halo, CN, alkyl, etc.; R₅ = H or halo; R₆ = H, halo, CN, alkyl, etc.], useful as insecticides, acaricides, nematocides and molluscicides, were prepared E.g., a multi-step synthesis of II, starting from 2-bromo-4-trifluoromethylaniline and tert-Bu 4-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-3,6-dihydro-2H-pyridine-1-carboxylate, was given. Exemplified compds. I were tested for their pesticidal/insecticidal properties (data given). Furthermore, the present invention relates to intermediates used to prepare compds. I, to methods of using them to combat and control insect, acarine, nematode and mollusc pests and to insecticidal, acaricidal, nematocidal and molluscicidal compns. comprising them.

REFERENCE COUNT:

1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 6 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:869121 HCAPLUS Full-text

DOCUMENT NUMBER: 153:105229

TITLE: Spiroheterocyclic N-oxypiperidines as pesticides

INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Cassayre,
 Jerome Yves; Edmunds, Andrew; Corsi, Camilla; El

Qacemi, Myriem; Hall, Roger Graham; Jeanguenat, Andre;
 Stoller, Andre; Godfrey, Christopher Richard;
 Schaetzer, Juergen Harry; Loiseleur, Olivier;
 Maierfisch, Peter; Carter, Neil Brian

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited

SOURCE: PCT Int. Appl., 176pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

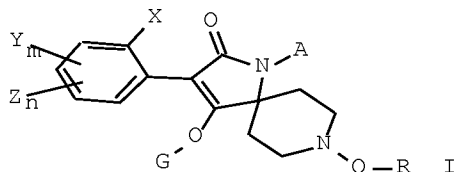
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|--|----------|
| ----- | ---- | ----- | ----- | ----- |
| WO 2010066780 | A1 | 20100617 | WO 2009-XB66710 | 20091209 |
| W: | | | AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | |
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| WO 2010066780 | A1 | 20100617 | WO 2009-EP66710 | 20091209 |
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| RW: | | | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | |

PRIORITY APPLN. INFO.:

| | | | |
|--|-----------------|---|----------|
| | GB 2008-22748 | A | 20081212 |
| | GB 2009-5237 | A | 20090326 |
| | WO 2009-EP66710 | | 20091209 |

GI



AB A compound of the formula (I), wherein the substituents are as defined in the text, are useful as a pesticides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 7 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:869120 HCAPLUS Full-text

DOCUMENT NUMBER: 153:105228

TITLE: Spiroheterocyclic N-oxypiperidines as pesticides

INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; ~~Cassayre~~,
~~Jerome Yves~~; Edmunds, Andrew; Corsi, Camilla; El
 Qacemi, Myriem; Hall, Roger Graham; Jeanguenat, Andre;
 Stoller, Andre; Godfrey, Christopher Richard;
 Schaetzer, Juergen Harry; Loiseleur, Olivier;
~~Maiefisch~~, Peter; Carter, Neil Brian

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited

SOURCE: PCT Int. Appl., 176pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

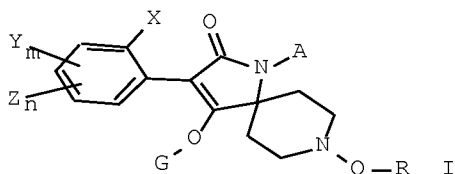
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2010066780 | A1 | 20100617 | WO 2009-XA66710 | 20091209 |
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| WO 2010066780 | A1 | 20100617 | WO 2009-EP66710 | 20091209 |
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| PRIORITY APPLN. INFO.: | | | GB 2008-22748 | A 20081212 |
| | | | GB 2009-5237 | A 20090326 |
| | | | WO 2009-EP66710 | 20091209 |

GI



AB A compound of the formula (I), wherein the substituents are as defined in the text, are useful as a pesticides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 8 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:840693 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 153:75908

TITLE: Spiroheterocyclic N-oxyamides as pesticides

INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Jeanguenat, Andre; El Qacemi, Myriem; Hall, Roger Graham; Edmunds, Andrew; Corsi, Camilla; Stoller, Andre; Godfrey, Christopher Richard; Schaetzer, Juergen Harry; Loiseleur, Olivier; Maiefisch, Peter; Cassayre, Jerome Yves

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 218pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

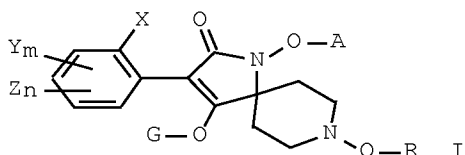
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| ----- | --- | ----- | ----- | ----- |
| WO 2010063670 | A1 | 20100610 | WO 2009-XA66039 | 20091130 |
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| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| WO 2010063670 | A1 | 20100610 | WO 2009-EP66039 | 20091130 |
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PRIORITY APPLN. INFO.:

GB 2008-22005 A 20081202
 GB 2009-5340 A 20090327
 WO 2009-EP66039 20091130

GI



AB Novel compds. of the formula (I), wherein the substituents are as defined in claims, were prepared and compns. containing them and their use as insecticides, acaricides, nematicides or molluscicides are described. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 9 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:750009 HCAPLUS Full-text

DOCUMENT NUMBER: 153:78843

TITLE: Spiroheterocyclic N-oxypiperidines as pesticides

INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; ~~Cassayre,~~
~~Jerome Yves~~; Edmunds, Andrew; Corsi, Camilla; El
 Qacemi, Myriem; Hall, Roger Graham; Jeanguenat, Andre;
 Stoller, Andre; Godfrey, Christopher Richard;
 Schaetzer, Juergen Harry; Loiseleur, Olivier;
~~Maienfishch, Peter~~; Carter, Neil Brian

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.; Syngenta Limited

SOURCE: PCT Int. Appl., 176pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

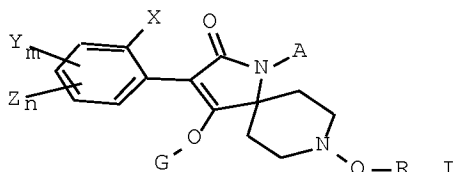
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|---|----------|-----------------|----------|
| WO 2010066780 | A1 | 20100617 | WO 2009-EP66710 | 20091209 |
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 AU 2009324389 A1 20100617 AU 2009-324389 20091209
 CA 2746394 A1 20100617 CA 2009-2746394 20091209
 WO 2010066780 A1 20100617 WO 2009-XA66710 20091209
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 WO 2010066780 A1 20100617 WO 2009-XB66710 20091209
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 KR 2011094337 A 20110823 KR 2011-7016084 20091209
 AR 74581 A1 20110126 AR 2009-104789 20091210
 PRIORITY APPLN. INFO.: GB 2008-22748 A 20081212
 GB 2009-5237 A 20090326
 WO 2009-EP66710 W 20091209

OTHER SOURCE(S): MARPAT 153:78843

GI



AB A compound of the formula (I), wherein the substituents are as defined in the text, are useful as a pesticides. [This abstract record is one of 3

records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

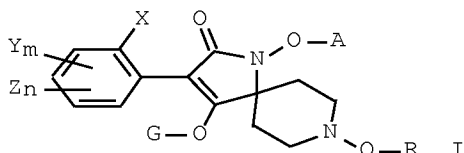
L32 ANSWER 10 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2010:720113 HCAPLUS Full-text
 DOCUMENT NUMBER: 153:30457
 TITLE: Spiroheterocyclic N-oxyamides as pesticides
 INVENTOR(S): Muehlebach, Michel; Pitterna, Thomas; Jeanguenat, Andre; El Qacemi, Myriem; Hall, Roger Graham; Edmunds, Andrew; Corsi, Camilla; Stoller, Andre; Godfrey, Christopher Richard; Schaetzer, Juergen Harry; Loiseleur, Olivier; Maiefisch, Peter; Cassayre, Jerome Yves
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 218pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|--|----------|
| WO 2010063670 | A1 | 20100610 | WO 2009-EP66039 | 20091130 |
| W: | | | AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | |
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| AU 2009324246 | A1 | 20100610 | AU 2009-324246 | 20091130 |
| CA 2744128 | A1 | 20100610 | CA 2009-2744128 | 20091130 |
| WO 2010063670 | A1 | 20100610 | WO 2009-XA66039 | 20091130 |
| W: | | | AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | |
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| AR 74422 | A1 | 20110119 | AR 2009-104601 | 20091130 |
| EP 2352376 | A1 | 20110810 | EP 2009-793493 | 20091130 |
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SI, SK, SM, TR
 PRIORITY APPLN. INFO.:

GB 2008-22005 A 20081202
 GB 2009-5340 A 20090327
 WO 2009-EP66039 W 20091130

OTHER SOURCE(S): CASREACT 153:30457; MARPAT 153:30457
 GI



AB Novel compds. of the formula (I), wherein the substituents are as defined in claims, were prepared and compns. containing them and their use as insecticides, acaricides, nematicides or molluscicides are described. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 11 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:336887 HCAPLUS Full-text

TITLE: Spiroindolines: Discovery of a novel class of insecticides

AUTHOR(S): Cassayre, Jerome; Hughes, Dave J.; Roberts, Richard S.; Worthington, Paul A.; Cederbaum, Fredrik; Maiefisch, Peter; Molleyres, Louis-Pierre

CORPORATE SOURCE: Research Chemistry, Syngenta Crop Protection AG, Stein, CH-4332, Switz.

SOURCE: Abstracts of Papers, 239th ACS National Meeting, San Francisco, CA, United States, March 21-25, 2010 (2010), AGRO-7. American Chemical Society: Washington, D. C.

CODEN: 69MML8

DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)

LANGUAGE: English

AB Substituted spiro[indoline-3,4'-piperidine] compds. (Spiroindolines) are a new class of insecticides, which possess a novel neuroactive mode of action and provide excellent activity against lepidopteran pests. The discovery, synthesis, biol. and structure-activity relationships of these novel spiroindoline compds. will be presented.

L32 ANSWER 12 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2010:111326 HCAPLUS Full-text

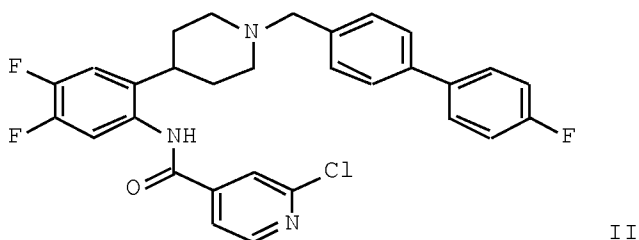
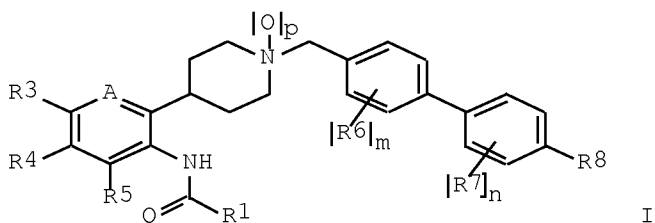
DOCUMENT NUMBER: 152:191963

TITLE: Preparation of insecticidal phenyl- or pyridyl-piperidine compounds

INVENTOR(S): Pitterna, Thomas; Cassayre, Jerome Yves; Corsi, Camilla; Maiefisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 77pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|--|------------------|------------|
| WO 2010009968 | A1 | 20100128 | WO 2009-EP58482 | 20090706 |
| W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
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| AU 2009273368 | A1 | 20100128 | AU 2009-273368 | 20090706 |
| CA 2730158 | A1 | 20100128 | CA 2009-2730158 | 20090706 |
| KR 2011033292 | A | 20110330 | KR 2011-7003948 | 20090706 |
| EP 2324010 | A1 | 20110525 | EP 2009-780170 | 20090706 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, AL, BA, RS | | | | |
| CN 102105461 | A | 20110622 | CN 2009-80128437 | 20090706 |
| AR 72874 | A1 | 20100929 | AR 2009-102756 | 20090720 |
| MX 2011000435 | A | 20110301 | MX 2011-435 | 20110111 |
| US 20110136866 | A1 | 20110609 | US 2011-55204 | 20110121 |
| PRIORITY APPLN. INFO.: | | | GB 2008-13436 | A 20080722 |
| | | | WO 2009-EP58482 | W 20090706 |
| OTHER SOURCE(S): | | CASREACT 152:191963; MARPAT 152:191963 | | |
| GI | | | | |



AB The title compds. I [A = CR₂, N; p = 0-1; R₁ = (un)substituted pyrid-4-yl; R₂ = H, halo, haloalkyl, haloalkoxy; R₃, R₄ = H, halo, CN, etc.; R₅ = H or halo; R₆, R₇ = halo, alkyl, haloalkyl, etc.; m = 0-2; n = 0-2; R₈ = H, halo, CN, etc.] were prepared Thus, reacting 2-chloro-N-[4,5-difluoro-2-(piperidin-4-yl)phenyl]isonicotinamide with 4-chloromethyl-4'-fluorobiphenyl afforded compound II. Exemplified compds. I were tested for their pesticidal/insecticidal activity. For example, II showed at least 80% control of *Spodoptera littoralis*, *Heliothis virescens*, and *Plutella xylostella*. Furthermore, the present invention relates to intermediates used to prepare compds. I, to methods of using compds. I to combat and control insect, acarine, nematode and mollusc pests and to insecticidal, acaricidal, nematocidal and molluscicidal compns. comprising them.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 13 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2009:1433828 HCAPLUS [Full-text](#)
 DOCUMENT NUMBER: 151:571019
 TITLE: Preparation of insecticidal N-bipyridinyl amides
 INVENTOR(S): Cassayre, Jerome Yves; Corsi, Camilla; Pitterna, Thomas; Maienfisch, Peter
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 57pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2009138219 | A2 | 20091119 | WO 2009-EP3395 | 20090513 |
| WO 2009138219 | A3 | 20100121 | | |

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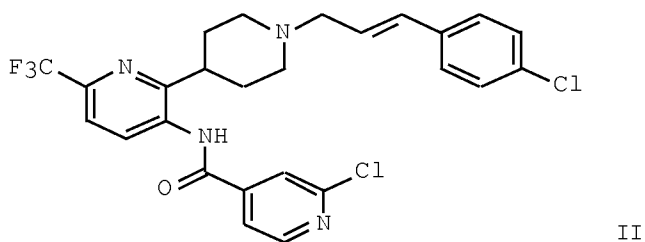
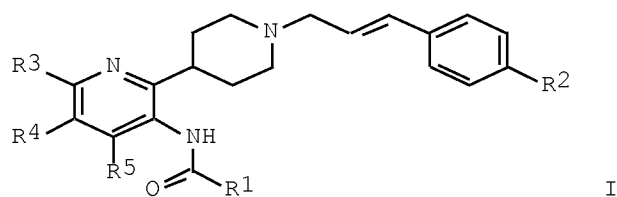
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| AU 2009248294 | A1 | 20091119 | AU 2009-248294 | 20090513 |
| CA 2723454 | A1 | 20091119 | CA 2009-2723454 | 20090513 |
| KR 2011010726 | A | 20110207 | KR 2010-7025526 | 20090513 |
| EP 2297136 | A2 | 20110323 | EP 2009-745553 | 20090513 |

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|----------------|----|----------|------------------|----------|
| CN 102026997 | A | 20110420 | CN 2009-80117518 | 20090513 |
| JP 2011523635 | T | 20110818 | JP 2011-508832 | 20090513 |
| MX 2010012251 | A | 20101217 | MX 2010-12251 | 20101109 |
| US 20110071191 | A1 | 20110324 | US 2010-992711 | 20101115 |

PRIORITY APPLN. INFO.: GB 2008-8888 A 20080515
WO 2009-EP3395 W 20090513

OTHER SOURCE(S): CASREACT 151:571019; MARPAT 151:571019
GI



AB The title compds. I [R1 = pyrid-4-yl optionally substituted by 1-4 substituents selected from halo, alkyl or haloalkyl; R2 = H, halo, haloalkyl or haloalkoxy; R3 = CF3, CF2H, OCF2H and R4 = H, F or Cl; or R3 = F, Cl or Br and R4 = F, Cl, CF3; and R5 = H or halo; or salts or N-oxides thereof], useful for combating and controlling insect, acarine, mollusc and nematode pests, were prepared A multi-step synthesis of (E)-II, starting from

3-amino-2-chloro-6-trifluoromethylpyridine and tert-Bu 4-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-3,6-dihydro-2H-pyridine-1-carboxylate, was given. Exemplified compds. I were tested against various insects (data given for representative compds. I). The present invention relates also to intermediates used to prepare compds. I, to methods of using them to combat and control insect, acarine, mollusc and nematode pests and to insecticidal, acaricidal, molluscicidal and nematicidal compns. comprising them.

L32 ANSWER 14 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:705066 HCAPLUS Full-text

DOCUMENT NUMBER: 151:213685

TITLE: New ventures in the chemistry of avermectins

AUTHOR(S): Pitterna, Thomas; Cassayre, Jerome; Huter, Ottmar
Franz; Jung, Pierre M. J.; Maienfisch, Peter;
Kessabi, Fiona Murphy; Quaranta, Laura; Tobler, Hans
CORPORATE SOURCE: Crop Protection Research, Chemistry, Syngenta Crop
Protection Munchwilen AG, Stein, CH-4332, Switz.

SOURCE: Bioorganic & Medicinal Chemistry (2009), 17(12),
4085-4095

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

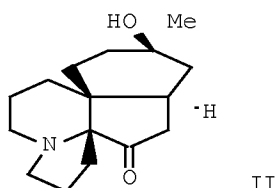
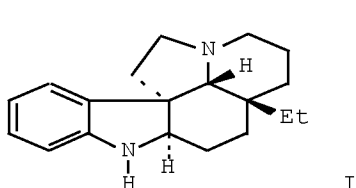
AB A review. An overview is given on recent work towards new avermectin derivs. of extremely high insecticidal and acaricidal activity. These compds. were prepared from com. available abamectin (avermectin B1). For the synthesis, many novel entries have been opened up, making use of modern synthetic methods and applying them, for the first time, to the chemical of avermectins. Several types of avermectin derivs. can be regarded as key innovations in the field. These are, in particular, 4''-deoxy-4''-(S)-amino avermectins, 4'-O-alkoxyalkyl avermectin monosaccharides, 4''-deoxy-4''-C-substituted 4''-amino avermectins, and 2''-substituted avermectins. 4''-Deoxy-4''-(S)-amino avermectins were obtained by the consecutive application of the Staudinger and Aza-Wittig reaction. 4'-O-Alkoxyalkyl avermectin monosaccharides were prepared by alkoxyalkylation of 5-O-protected avermectin monosaccharide. For the synthesis of 4''-deoxy-4''-C-substituted 4''-amino avermectins, several methods were used to construct the fully substituted 4''-carbon center, such as a modified Strecker synthesis, the addition of organometallics to a 4''-sulfinimine and a modified Ugi approach. To prepare 2''-substituted avermectins, 5-O-protected avermectin monosaccharide was coupled with carbohydrate building blocks. An alternative synthesis involved the hitherto unknown enol ether chemical of 4''-oxo-avermectin and the conjugate addition of a cuprate to an avermectin 2'',3''-en-4''-one. In addition, a number of other highly potent derivs. were synthesized. Examples are 4''-O-amino avermectins, as well as products arising from intramol. rhodium-catalyzed amidations and carbene insertions. A radical cyclization led to an intriguing rearrangement of the avermectin skeleton. Many of the new avermectins surpassed the activity of abamectin against insects and mites.

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

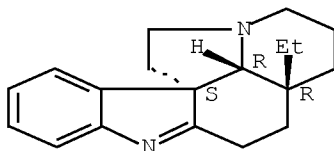
L32 ANSWER 15 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:581318 HCAPLUS Full-text
 DOCUMENT NUMBER: 149:129011
 TITLE: Amidyls in radical cascades. The total synthesis of
 (\pm)-aspidospermidine and (\pm)-13-deoxyserratine
 AUTHOR(S): Callier-Dublanche, Anne-Claude; Cassayre, Jerome;
 Gagosz, Fabien; Quiclet-Sire, Beatrice; Sharp, Lisa
 A.; Zard, Samir Z.
 CORPORATE SOURCE: Laboratoire de Synthèse Organique - C. N. R. S.,
 Département de Chimie, Ecole Polytechnique, Palaiseau,
 F-91128, Fr.
 SOURCE: Tetrahedron (2008), 64(21), 4803-4816
 CODEN: TETRAB; ISSN: 0040-4020
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 149:129011
 GI



AB Concise routes to (\pm)-aspidospermidine (I) and 13-deoxyserratine (II) were described and hinged on a cascade starting from an amidyl radical that allowed the construction of the key indolizidine cores in one step.
 IT 65377-84-6P, (\pm)-Dehydroaspidospermidine
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (total synthesis of the indolizidine alkaloids (\pm)-aspidospermidine and (\pm)-13-deoxyserratine via an amidyl radical cascade cyclization reaction)
 RN 65377-84-6 HCAPLUS
 CN Aspidospermidine, 1,2-didehydro-, (\pm)- (CA INDEX NAME)

Relative stereochemistry.



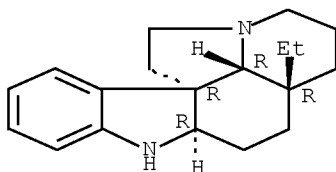
IT 7689-02-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)

(total synthesis of the indolizidine alkaloids (±)-aspidospermidine and (±)-13-deoxyserratine via an amidyl radical cascade cyclization reaction)

RN 7689-02-3 HCAPLUS

CN Aspidospermidine, (±)- (CA INDEX NAME)

Relative stereochemistry.



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
 REFERENCE COUNT: 112 THERE ARE 112 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L32 ANSWER 16 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2007:841452 HCAPLUS Full-text
 DOCUMENT NUMBER: 147:235145
 TITLE: Preparation of diazaspiro[4.5]decanes as pesticides
 INVENTOR(S): Pitterna, Thomas; Cassayre, Jerome; Molleyres, Louis-Pierre; Maiefisch, Peter
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
 SOURCE: PCT Int. Appl., 97pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

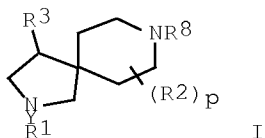
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2007085945 | A1 | 20070802 | WO 2007-IB176 | 20070119 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| EP 1979354 | A1 | 20081015 | EP 2007-700519 | 20070119 |
| EP 1979354 | B1 | 20091111 | | |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | |

| | | | | |
|------------------------|----|----------|------------------|------------|
| JP 2009528265 | T | 20090806 | JP 2008-550870 | 20070119 |
| AT 448227 | T | 20091115 | AT 2007-700519 | 20070119 |
| ES 2336271 | T3 | 20100409 | ES 2007-700519 | 20070119 |
| BR 2007007206 | A2 | 20110426 | BR 2007-7206 | 20070119 |
| IN 2008DN05432 | A | 20081024 | IN 2008-DN5432 | 20080623 |
| CN 101370810 | A | 20090218 | CN 2007-80002913 | 20080723 |
| US 20100227862 | A1 | 20100909 | US 2008-161823 | 20080723 |
| PRIORITY APPLN. INFO.: | | | GB 2006-1402 | A 20060124 |
| | | | WO 2007-IB176 | W 20070119 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 147:235145; MARPAT 147:235145

GI



AB Title compds. [I; Y = bond, CO, CS, S, SO, SO₂; R₁ = H, (substituted) alkyl, alkoxy, alkoxy carbonyl, aryl, heteroaryl, etc.; R₂ = halo, OH, cyano, (substituted) alkyl, alkenyl, alkynyl, alkoxy carbonyl, alkylaminocarbonyl, aryl, heteroaryl, etc.; R₃ = (substituted) aryl, heteroaryl; R₈ = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, alkoxy, aryloxy, alkoxy carbonyl, etc.; p = 0-4], were prepared Thus, [8-[(E)-3-(4-chlorophenyl)allyl]-4-(4-fluorophenyl)-2,8-diazabicyclo[4.5]dec-2-yl](2-chloropyridin-4-yl)methanone was prepared in 6 steps from 4-fluorophenylacetonitrile, 1-benzylpiperidin-4-one, 2-chloroisonicotinoyl chloride, and (E)-1-chloro-4-(3-chloropropenyl)benzene. Numerous I at 200 ppm gave ≥80% control of *Spodoptera littoralis* on cotton leaf disks.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 17 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2007:706107 HCAPLUS Full-text

DOCUMENT NUMBER: 147:118270

TITLE: Preparation of heterocyclic-substituted piperidine derivatives as insecticides, acaricides, nematocides or molluscicides

INVENTOR(S): Cassayre, Jerome; Maiefisch, Peter; Cederbaum, Fredrik; Molleyres, Louis-Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 65pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

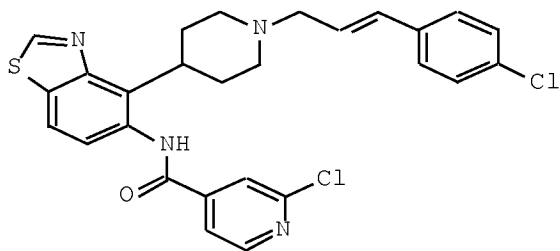
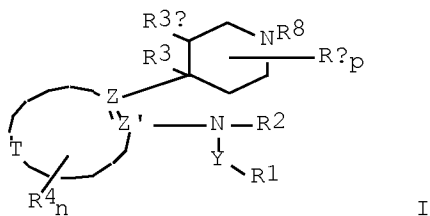
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

WO 2007072143 A2 20070628 WO 2006-IB3585 20061206
 WO 2007072143 A3 20071206
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
 EP 1965651 A2 20080910 EP 2006-821055 20061206
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 JP 2009520803 T 20090528 JP 2008-546662 20061206
 IN 2008DN05013 A 20080926 IN 2008-DN5013 20080610
 CN 101355879 A 20090128 CN 2006-80050724 20080709
 US 20090118295 A1 20090507 US 2008-97936 20080911
 PRIORITY APPLN. INFO.: GB 2005-26042 A 20051221
 WO 2006-IB3585 W 20061206
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): CASREACT 147:118270; MARPAT 147:118270
 GI



AB Title compds. [I; Y = a single bond, CO, CS, S(O)_m, where m = 0-2; the ring containing T, Z and Z' is a 6-membered aromatic or a 5- or 6-membered heteroarom. ring; Z and Z' are joined by a single or a double bond and are :C or N, provided that both are not N; Ra, R1, R2, R3, R3a, R4 and R8 are specified organic groups; n = 2-4, p = 0-4] or salts or N-oxides thereof or

comps. containing them are claimed for controlling insects, acarines, nematodes or molluscs. E.g., (benzothiazol-5-yl)isonicotinamide derivative II (preparation given) showed $\geq 80\%$ control of *Spodoptera littoralis*, *Heliothis virescens*, *Plutella xylostella* and *Aedes aegypti*.

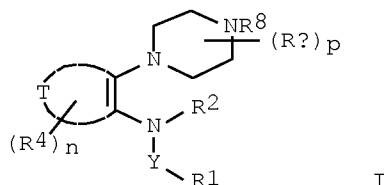
L32 ANSWER 18 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2007:593432 HCAPLUS Full-text
 DOCUMENT NUMBER: 146:516459
 TITLE: Piperazine derivative acaricides, insecticides and nematocides
 INVENTOR(S): Cassayre, Jerome; Maiefisch, Peter; Cederbaum, Fredrik; Molleyres, Louis-Pierre; Corsi, Camilla; Pitterna, Thomas
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
 SOURCE: PCT Int. Appl., 58pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2007060541 | A2 | 20070531 | WO 2006-IB3425 | 20061124 |
| WO 2007060541 | A3 | 20071129 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: GB 2005-24197 A 20051128
 OTHER SOURCE(S): MARPAT 146:516459
 GI



AB The use of the piperazine derivs. I [Y = single bond, C:O, C:S or S(O)m; R1 = H, (un)substituted alkyl, alkoxy carbonyl, alkyl carbonyl, etc.; R2 = H, OH,

(un)substituted alkyl or alkoxy; R1YNR2 = ring; R4 = halo, nitro, cyano, thiocyanato; (un)substituted alkyl, alkenyl, alkynyl, etc., R8 = (un)substituted alkyl, alkenyl, alkynyl, etc.; Ra = OH, halo, cyano, (un)substituted alkyl, alkenyl, alkynyl, etc.; the T-containing ring is Ph or heterocyclyl; n = 2, 3 or 4; m = 0, 1 or 2; p = 0-4]; or salts or N-oxides thereof, for controlling insects, acarines, nematodes or molluscs, is given (no data). The preparation of I is outlined.

L32 ANSWER 19 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2006:30969 HCAPLUS Full-text

DOCUMENT NUMBER: 144:102389

TITLE: Piperidine derivatives as pesticides

INVENTOR(S): Maiefisch, Peter; Molleyres, Louis-Pierre;
Cassayre, Jerome; Cederbaum, Fredrik; Corsi,
Camilla; Pitterna, Thomas

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 161 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

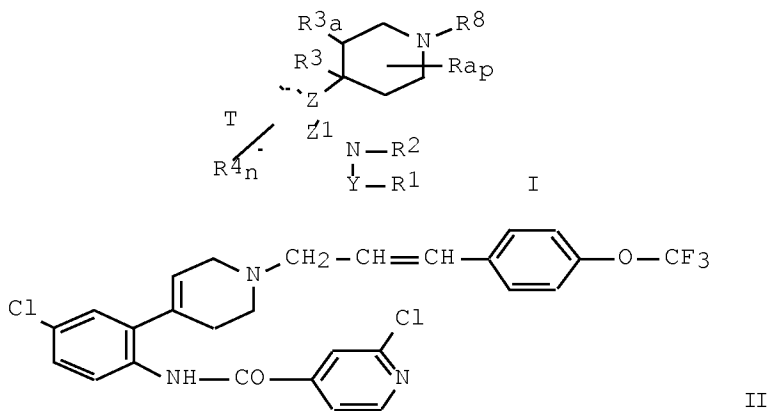
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|--|----------|------------------|----------|
| WO 2006003494 | A2 | 20060112 | WO 2005-IB2002 | 20050622 |
| WO 2006003494 | A3 | 20060615 | | |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| AU 2005258905 | A1 | 20060112 | AU 2005-258905 | 20050622 |
| AU 2005258905 | B2 | 20110310 | | |
| CA 2568808 | A1 | 20060112 | CA 2005-2568808 | 20050622 |
| EP 1763302 | A2 | 20070321 | EP 2005-757532 | 20050622 |
| R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU | | | |
| CN 1976584 | A | 20070606 | CN 2005-80021847 | 20050622 |
| JP 2008504253 | T | 20080214 | JP 2007-517523 | 20050622 |
| BR 2005012659 | A | 20080401 | BR 2005-12659 | 20050622 |
| AP 1970 | A | 20090430 | AP 2006-3830 | 20050622 |
| NZ 551629 | A | 20100930 | NZ 2005-551629 | 20050622 |
| AR 49556 | A1 | 20060816 | AR 2005-102615 | 20050624 |
| ZA 2006009687 | A | 20080130 | ZA 2006-9687 | 20061121 |
| MX 2006014005 | A | 20070208 | MX 2006-14005 | 20061130 |
| KR 2007029214 | A | 20070313 | KR 2006-7027660 | 20061228 |
| IN 2006CN04783 | A | 20070629 | IN 2006-CN4783 | 20061228 |

US 20090042938 A1 20090212 US 2007-571303 20071024
 PRIORITY APPLN. INFO.: GB 2004-14438 A 20040628
 WO 2005-IB2002 W 20050622
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 144:102389
 GI



AB A method of controlling pests comprises applying an insecticidally, acaricidally, nematocidally, or molluscicidally effective amount of a compound of formula I, or salts or N-oxides thereof, where Y is a single bond, CO, CS, or S(O)_m and m = 0, 1 or 2; the ring is a 6-membered aromatic or a 5- or 6-membered heteroarom. ring; Z and Z' are :C or N (but not both N); R₁, R₂, R₃, R_{3a}, R₄, R₈, and R_a are specified organic groups and n and p are independently 0, 1, 2, 3 or 4. Novel compds. are also provided, with preparative examples. Thus, II gave ≥80% control of *Plutella xylostella* (diamondback moth) and *Aedes aegypti* (yellow fever mosquito).

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 20 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:1290440 HCAPLUS Full-text

DOCUMENT NUMBER: 144:1648

TITLE: Preparation of piperazine derivatives as pesticides

INVENTOR(S): Cassayre, Jerome; Molleyres, Louis-Pierre; Maiefisch, Peter; Cederbaum, Fredrik; Corsi, Camilla; Pitterna, Thomas

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

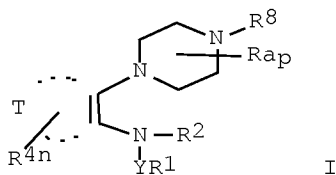
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 144:1648; MARPAT 144:1648
GI



AB The piperazine derivs. [Y = bond, CO, CS or SO, SO, SO2 or aromatic or heteroarom. ring.; R1 = H, (un)substituted alkyl, alkoxy carbonyl, aminocarbonyl, etc.; R2 = H or (un)substituted alkyl; R2NYR1 = ring; R4 =

halo, nitro, cyano (un)substituted alkyl, etc.; R8 = (un)substituted alkyl, alkenyl, alkynyl, aryl, etc.; Ra = halo, OH, CN, (un)substituted alkyl, etc.; n, p = 0, 1-4] are prepared as pesticides for controlling insects, acarines, nematodes or molluscs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 21 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:588966 HCAPLUS Full-text

DOCUMENT NUMBER: 143:115453

TITLE: Preparation of spiropiperidines and related compounds as pesticides

INVENTOR(S): Molleyres, Louis-Pierre; Cassayre, Jerome; Cederbaum, Fredrik; Maienfisch, Peter

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 176 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|--|----------|------------------|----------|
| WO 2005061500 | A1 | 20050707 | WO 2004-IB4083 | 20041209 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| AU 2004303618 | A1 | 20050707 | AU 2004-303618 | 20041209 |
| AU 2004303618 | B2 | 20100805 | | |
| CA 2547814 | A1 | 20050707 | CA 2004-2547814 | 20041209 |
| EP 1694677 | A1 | 20060830 | EP 2004-806330 | 20041209 |
| EP 1694677 | B1 | 20091202 | | |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS | | | |
| CN 1894249 | A | 20070110 | CN 2004-80037007 | 20041209 |
| CN 1894249 | B | 20110615 | | |
| BR 2004017544 | A | 20070327 | BR 2004-17544 | 20041209 |
| JP 2007516972 | T | 20070628 | JP 2006-543658 | 20041209 |
| CN 101544640 | A | 20090930 | CN 2009-10139118 | 20041209 |
| AT 450538 | T | 20091215 | AT 2004-806330 | 20041209 |
| ES 2337693 | T3 | 20100428 | ES 2004-806330 | 20041209 |
| NZ 546995 | A | 20100730 | NZ 2004-546995 | 20041209 |
| CN 101940214 | A | 20110112 | CN 2010-10285288 | 20041209 |
| MX 2006006212 | A | 20060809 | MX 2006-6212 | 20060601 |
| ZA 2006004644 | A | 20071128 | ZA 2006-4644 | 20060606 |
| KR 2006123308 | A | 20061201 | KR 2006-7011568 | 20060612 |
| IN 2006CN02073 | A | 20070706 | IN 2006-CN2073 | 20060612 |
| US 20070135408 | A1 | 20070614 | US 2007-581176 | 20070129 |

US 7960401 B2 20110614
 HK 1097829 A1 20100416 HK 2007-101863 20070215
 PRIORITY APPLN. INFO.: GB 2003-28905 A 20031212
 CN 2004-80037007 A3 20041209
 WO 2004-IB4083 W 20041209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 143:115453; MARPAT 143:115453

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [W = (R4)n; n = 0-3; X = (CRa2)p; Z = (CRa2)q; Ra = H, halo, OH, etc.; p = 0-6; q = 0-6; Y = single bond, CO, CS, etc.; R1 = H, alkyl, alkoxy carbonyl, etc.; R2, R3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; R8 = alkyl, alkenyl, alkynyl, etc.; T = 5- or 6-membered heteroarom. ring] and N-oxides were prepared For example, N-alkylation of piperidine II with 4-chlorocinnamyl chloride afforded spiropiperidine III in 58% yield. In diamoundback moth protection assays, 72-examples of compds. I at 18.2 ppm exhibited at least 80% protection after 5-days.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 22 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:570877 HCAPLUS Full-text

DOCUMENT NUMBER: 143:77964

TITLE: Preparation of insecticidal spiroindane derivatives

INVENTOR(S): Cassayre, Jerome; Molleyres, Louis-Pierre;

Maienfisch, Peter; Cederbaum, Fredrik

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

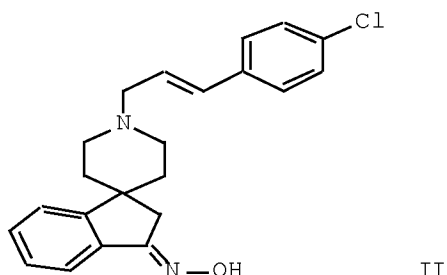
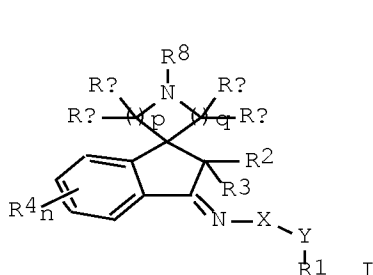
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2005058836 | A1 | 20050630 | WO 2004-IB4108 | 20041209 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1697327 | A1 | 20060906 | EP 2004-806338 | 20041209 |
| EP 1697327 | B1 | 20110713 | | |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS | | | |

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| BR 2004017555 | A | 20070327 | BR 2004-17555 | 20041209 |
| JP 2007516253 | T | 20070621 | JP 2006-543659 | 20041209 |
| AT 516273 | T | 20110715 | AT 2004-806338 | 20041209 |
| IN 2006CN02077 | A | 20070706 | IN 2006-CN2077 | 20060612 |
| US 20080306101 | A1 | 20081211 | US 2008-581177 | 20080828 |
| PRIORITY APPLN. INFO.: | | | GB 2003-28906 | A 20031212 |
| | | | WO 2004-IB4108 | W 20041209 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 143:77964; MARPAT 143:77964

GI



AB Title compds. I [X = O, amino; Y = bond, CO, CS, SOO-2; R1 = H, alkyl, alkoxy carbonyl, etc.; R2-3 = H, halo, CN, alkyl, etc.; R4 = halo, NO2, CN, etc.; Ra = H, halo, OH, CN, etc.; p, q = 0-6; R8 = alk(en/yn)yl, etc.] are prepared For instance, II is prepared in 3 steps from spiro[indan-1-one-3,4'-piperidine]-1'-carboxylic acid tert Bu ester, 4-chlorocinnamyl chloride and hydroxylamine (E (dominant) and Z oximes isolated). Selected example compds. gave >80% control of Spodoptera littoralis. I are useful in controlling insects, acarines, nematodes or molluscs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 23 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:567094 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 143:73282

TITLE: Preparation of
(3-(1-(3-phenylpropenyl)piperidin-4-yl)-2,3-dihydroindol-1-yl)-(pyridin-4-yl)methanone

derivatives

as insecticides, acaricides and nematocides
INVENTOR(S): Cassayre, Jerome; Maiefisch, Peter; Molleyres, Louis-Pierre; Cederbaum, Fredrik

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 155 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| | | | | |
|------------|------|------|-----------------|------|
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|

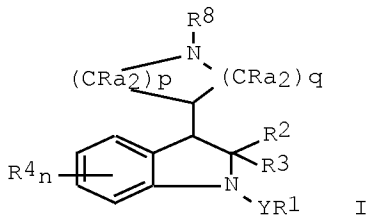
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WO 2005058035      A1      20050630      WO 2004-IB4170      20041209
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    GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
    LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
    NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
    TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
    AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
    EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
    RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
    MR, NE, SN, TD, TG

AR 48209            A1      20060412      AR 2004-104594      20041209
EP 1732385          A1      20061220      EP 2004-806368      20041209
R:   AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
    IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
BR 2004017574        A      20070320      BR 2004-17574        20041209
JP 2007528873        T      20071018      JP 2006-543661      20041209
IN 2006CN02078        A      20070706      IN 2006-CN2078      20060612
US 20070225269        A1      20070927      US 2007-581173      20070123
PRIORITY APPLN. INFO.:                GB 2003-28909        A      20031212
                                           WO 2004-IB4170        W      20041209

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S):          CASREACT 143:73282; MARPAT 143:73282
GI

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AB The title compds. I [Y = single bond, C:O, C:S or S(O)_m; m = 0, 1 or 2; R₁ = H, (un)substituted alkyl, alkoxy carbonyl, etc.; R₂, R₃ = H, halo, CN, (un)substituted alkyl or aryl; R₄ = halo, NO₂, CN, (un)substituted alkyl, alkenyl, etc.; R₈ = (un)substituted alkyl, alkenyl, alkynyl, etc.; R_a = H, halo, OH, CN, (un)substituted alkyl, alkenyl, or alkynyl, etc.; p, q = 0, 1-6] and I salts or N-oxides are prepared as insecticides, acaricides and nematocides.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 24 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:564667 HCAPLUS Full-text

DOCUMENT NUMBER: 143:78078

TITLE: Preparation of spiroindoline derivatives having insecticidal properties

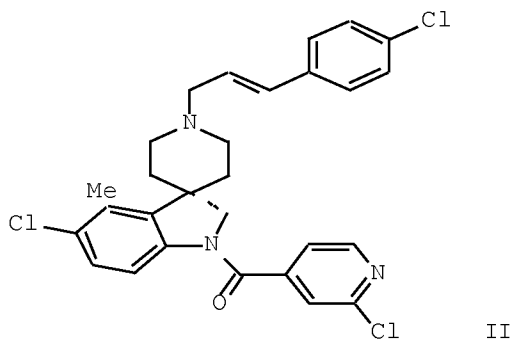
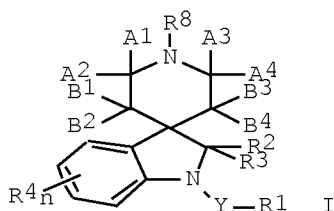
INVENTOR(S): Cassayre, Jerome; Molleyres, Louis-Pierre; Maiefisch, Peter; Cederbaum, Fredrik

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
 SOURCE: PCT Int. Appl., 176 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| WO 2005058897 | A1 | 20050630 | WO 2004-IB4114 | 20041209 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1694676 | A1 | 20060830 | EP 2004-806344 | 20041209 |
| EP 1694676 | B1 | 20090826 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS | | | | |
| BR 2004017545 | A | 20070327 | BR 2004-17545 | 20041209 |
| JP 2007516254 | T | 20070621 | JP 2006-543660 | 20041209 |
| AT 440845 | T | 20090915 | AT 2004-806344 | 20041209 |
| ES 2332723 | T3 | 20100211 | ES 2004-806344 | 20041209 |
| IN 2006CN02089 | A | 20070706 | IN 2006-CN2089 | 20060612 |
| US 20090042921 | A1 | 20090212 | US 2008-581175 | 20081007 |
| PRIORITY APPLN. INFO.: | | | GB 2003-28908 | A 20031212 |
| | | | WO 2004-IB4114 | W 20041209 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 143:78078; MARPAT 143:78078
 GI



AB Title compds. I [Y = bond, CO, CS, etc.; R2-3 = H, halo, CN, etc.; R4 = halo, NO2, CN, etc.; A1-4, B1-4 = H, halo, OH, CN, etc.; n = 0-4] are prepared For instance, II is prepared in 3 steps from 3-methylpiperidin-4-one, 4-chlorocinnamyl chloride, 4-chlorophenylhydrazine•HCl and 2-chloroisonicotinoyl chloride. Example compds. gave at least 80% control of *Plutella xylostella*. I are useful in controlling insects, acarines, nematodes or molluscs.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 25 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:216832 HCAPLUS Full-text

DOCUMENT NUMBER: 142:275493

TITLE: Preparation of avermectins and avermectin monosaccharides, substituted in the 4'- and 4" position, as insecticides and acaricides

INVENTOR(S): Murphy Kessabi, Fiona; Pitterna, Thomas; Maiefisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre; Hueter, Ottmar Franz

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

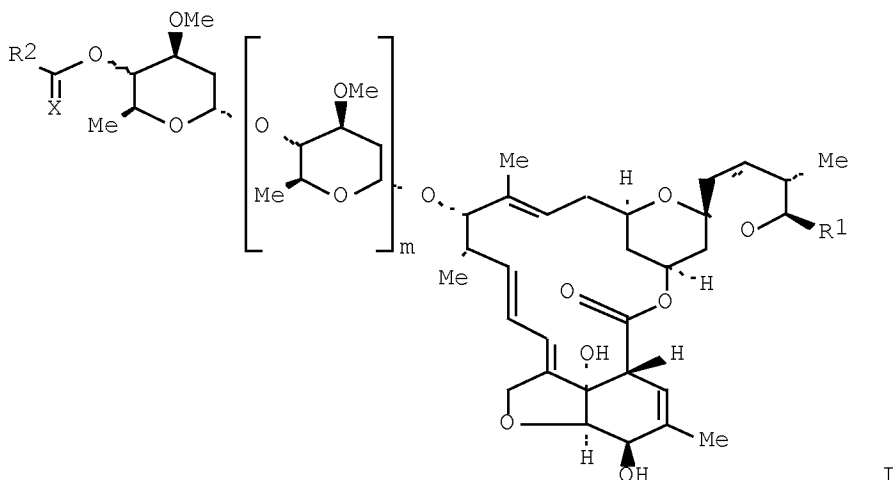
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| WO 2005021569 | A1 | 20050310 | WO 2004-EP9594 | 20040827 |
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| RW: | BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| EP 1660510 | A1 | 20060531 | EP 2004-764568 | 20040827 |
| EP 1660510 | B1 | 20080402 | | |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK | | | |
| JP 2007504113 | T | 20070301 | JP 2006-524341 | 20040827 |
| AT 391133 | T | 20080415 | AT 2004-764568 | 20040827 |
| PT 1660510 | E | 20080620 | PT 2004-764568 | 20040827 |
| ES 2307042 | T3 | 20081116 | ES 2004-764568 | 20040827 |
| US 20080194498 | A1 | 20080814 | US 2006-568715 | 20060217 |
| US 7704961 | B2 | 20100427 | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-20176 | A 20030828 |
| | | | WO 2004-EP9594 | W 20040827 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 142:275493; MARPAT 142:275493

GI



AB The title compds. I wherein the bond between carbon atoms 22 and 23 is a single or double bond; m is 0 or 1; R₁, is C₁-C₁₂alkyl, C₃-C₈cycloalkyl or C₂-C₁₂alkenyl; and either (A) R₂ is NR₃R₄, and (1) X is O, wherein R₃ is, for instance, H, unsubstituted or mono- to pentasubstituted C₁-C₁₂ alkyl, and R₄ is, for instance, mono- to pentasubstituted C₁-C₁₂ alkyl, unsubstituted or mono- to pentasubstituted C₃-C₁₂ cycloalkyl; or (2) X is S, wherein R₃ is, for instance, H, unsubstituted or mono- to pentasubstituted C₁-C₁₂ alkyl, and R₄ is, for instance, H, unsubstituted or mono- to pentasubstituted C₁-C₁₂ alkyl; or (3) X is O or S, wherein R₃ and R₄ together are, for instance, a three- to seven membered alkylene or a four- to seven-membered alkenylene bridge; or (B) R₂ is OR₅, X is O or S, wherein R₅ is, for instance, C₁-C₁₂ alkyl, mono- to pentasubstituted C₁-C₁₂ alkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in free form or in salt form, are prepared as insecticides and acaricides.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 26 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156793 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431581

TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides

INVENTOR(S): Pitterna, Thomas; Maiefisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 104 pp.

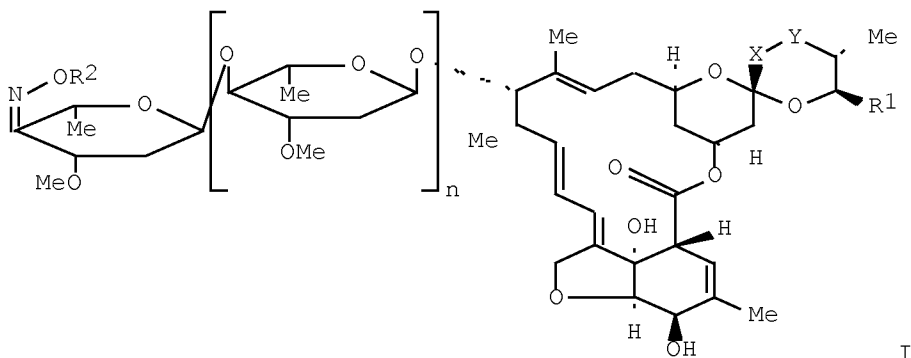
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004066725 | A2 | 20040812 | WO 2004-XF900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004066725 | A2 | 20040812 | WO 2004-EP900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
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| PRIORITY APPLN. INFO.: | | | GB 2003-2310 | A 20030131 |
| | | | WO 2004-EP900 | 20040130 |

GI



AB The title compds. I [XY = CH:CH or CH₂CH₂; Z = C(O), C(S) or S(O)₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ = R₃Z, R₃OZ, R₄ or ZNR₆R₇; Q = O or NR₅; R₃, R₄ = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl or heterocyclyl; R₅ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl, C₂-C₈ alkenyl, C₂-C₈ alkynyl, Ph or benzyl; R₆, R₇ = H, (un)substituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 27 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:1156792 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:431580
 TITLE: Preparation of avermectin and avermectin

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides

Pitterna, Thomas; Maiefisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre

Syngenta Participations AG, Switz.

PCT Int. Appl., 104 pp.

CODEN: PIXXD2

Patent

English

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2004066725 | A2 | 20040812 | WO 2004-XE900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |

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| | | | | |
|---------------|----|----------|---------------|----------|
| WO 2004066725 | A2 | 20040812 | WO 2004-EP900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |

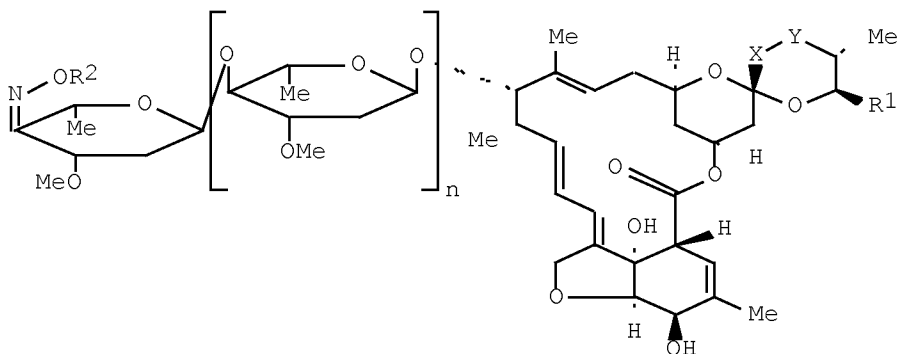
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PRIORITY APPLN. INFO.:

GB 2003-2310 A 20030131

WO 2004-EP900 20040130

GI



I

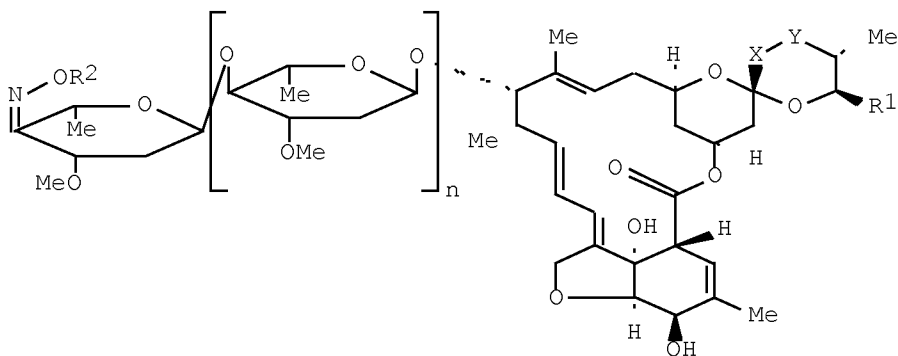
AB The title compds. I [XY = CH:CH or CH₂CH₂; Z = C(O), C(S) or S(O)₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ = R₃Z, R₃OZ, R₄ or ZNR₆R₇; Q = O or NR₅; R₃, R₄ = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl or heterocyclyl; R₅ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl, C₂-C₈ alkenyl, C₂-C₈ alkynyl, Ph or benzyl; R₆, R₇ = H, (un)substituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document

necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 28 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:1156791 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:431579
 TITLE: Preparation of avermectin and avermectin
 monosaccharide derivatives substituted in the 4''- or
 4'-position as insecticides and acaricides
 INVENTOR(S): Pitterna, Thomas; ~~Maiefisch, Peter~~; Murphy Kessabi,
 Fiona; ~~Cassayre, Jerome~~; Quaranta, Laura; Jung, Pierre
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| WO 2004066725 | A2 | 20040812 | WO 2004-XD900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004066725 | A2 | 20040812 | WO 2004-EP900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2310 | A 20030131 |
| | | | WO 2004-EP900 | 20040130 |

GI



AB The title compds. I [XY = CH:CH or CH₂CH₂; Z = C(O), C(S) or SO₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ = R₃Z, R₃OZ, R₄ or ZNR₆R₇; Q = O or NR₅; R₃, R₄ = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl or heterocyclyl; R₅ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl, C₂-C₈ alkenyl, C₂-C₈ alkynyl, Ph or benzyl; R₆, R₇ = H, (un)substituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 29 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156790 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431578

TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides

INVENTOR(S): Pitterna, Thomas; ~~Maiefisch~~, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

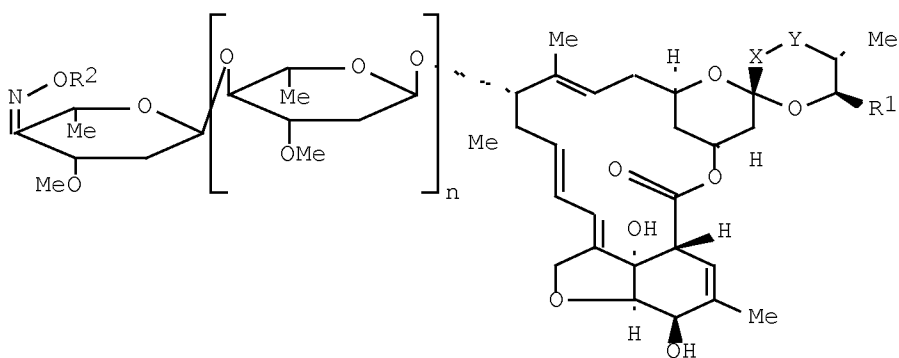
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| ----- | ---- | ----- | ----- | ----- |
| WO 2004066725 | A2 | 20040812 | WO 2004-XC900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004066725 | A2 | 20040812 | WO 2004-EP900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2310 | A 20030131 |
| | | | WO 2004-EP900 | 20040130 |

GI



AB The title compds. I [XY = CH:CH or CH₂CH₂; Z = C(O), C(S) or S₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ = R₃Z, R₃OZ, R₄ or ZNR₆R₇; Q = O or NR₅; R₃, R₄ = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl or heterocyclyl; R₅ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl, C₂-C₈ alkenyl, C₂-C₈ alkynyl, Ph or benzyl; R₆, R₇ = H, (un)substituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 30 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156789 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431577

TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides

INVENTOR(S): Pitterna, Thomas; Maiefisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

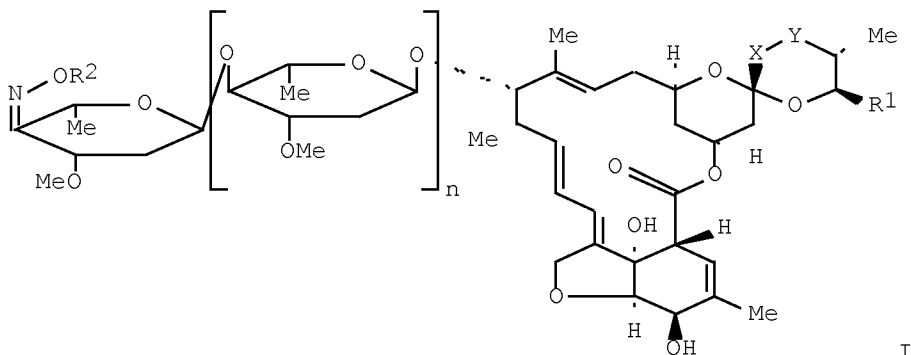
FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2004066725 | A2 | 20040812 | WO 2004-XB900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004066725 | A2 | 20040812 | WO 2004-EP900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, | | | | |

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
 PRIORITY APPLN. INFO.: GB 2003-2310 A 20030131
 WO 2004-EP900 20040130

GI



AB The title compds. I [XY = CH:CH or CH₂CH₂; Z = C(O), C(S) or S(O)₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ = R₃Z, R₃OZ, R₄ or ZNR₆R₇; Q = O or NR₅; R₃, R₄ = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl or heterocycllyl; R₅ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl, C₂-C₈ alkenyl, C₂-C₈ alkynyl, Ph or benzyl; R₆, R₇ = H, (un)substituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 31 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156788 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431576

TITLE: Preparation of avermectin and avermectin monosaccharide derivatives substituted in the 4''- or 4'-position as insecticides and acaricides

INVENTOR(S): Pitterna, Thomas; ~~Maiefisch, Peter~~; Murphy Kessabi, Fiona; ~~Cassayre, Jerome~~; Quaranta, Laura; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

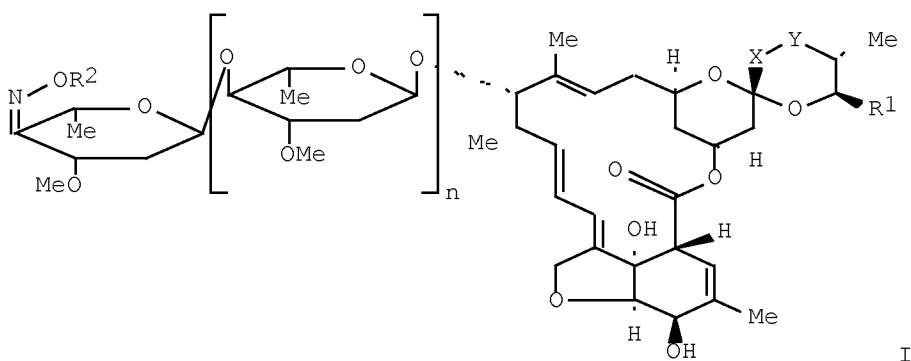
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2004066725 | A2 | 20040812 | WO 2004-XA900 | 20040130 |

WO 2004066725 A3 20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
WO 2004066725 A2 20040812 WO 2004-EP900 20040130
WO 2004066725 A3 20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
PRIORITY APPLN. INFO.: GB 2003-2310 A 20030131
WO 2004-EP900 20040130
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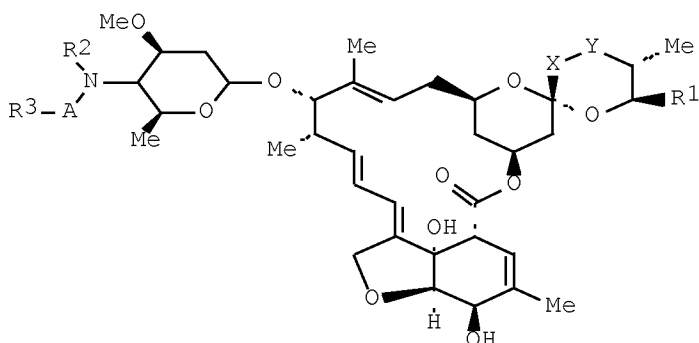
AB The title compds. I [XY = CH:CH or CH₂CH₂; Z = C(O), C(S) or S(=O)₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ = R₃Z, R₃OZ, R₄ or ZNR₆R₇; Q = O or NR₅; R₃, R₄ = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl or heterocyclyl; R₅ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl, C₂-C₈ alkenyl, C₂-C₈ alkynyl, Ph or benzyl; R₆, R₇ = H, (un)substituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 32 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156787 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431575
TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties
INVENTOR(S): Pitterna, Thomas; ~~Maienfisch, Peter~~; Murphy Kessabi, Fiona; Tobler, Hans; ~~Cassayre, Jerome~~; Quaranta, Laura
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 112 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004067534 | A1 | 20040812 | WO 2004-XE899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004067534 | A1 | 20040812 | WO 2004-EP899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2309 | A 20030131 |
| | | | WO 2004-EP899 | 20040130 |

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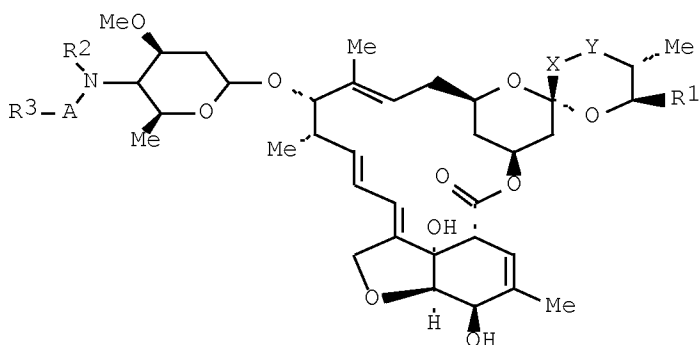
AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO₂, OSO₂, NRSO₂, bond; X-Y is CH:CH, CH₂CH₂; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R₁ is alkyl, cycloalkyl, alkenyl; R₂ and R₃ are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R₂R₃ together form 3-7 membered alkylene or alkynylene bridge; R₂R₃ and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R₁ = R₂ = Me) was prepared and tested as a pesticide against *Spodoptera littoralis*, *Heliothis virescens*, *Plutella xylostella* caterpillars, *Diabrotica balteata*, and *Tetranychus urticae*. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 33 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:1156786 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:431574
 TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties

INVENTOR(S): Pitterna, Thomas; Maiefisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004067534 | A1 | 20040812 | WO 2004-XD899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004067534 | A1 | 20040812 | WO 2004-EP899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2309 | A 20030131 |
| | | | WO 2004-EP899 | 20040130 |

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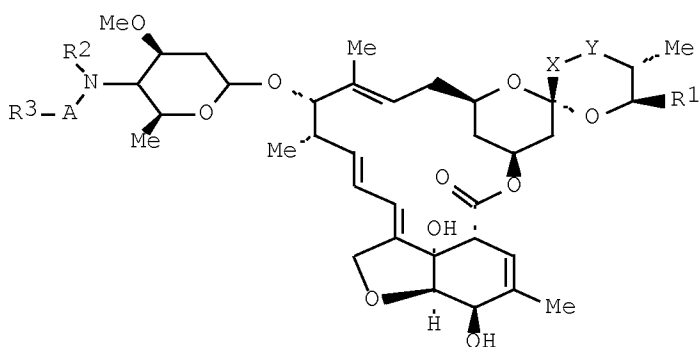
I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO₂, OSO₂, NRSO₂, bond; X-Y is CH:CH, CH₂CH₂; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R₁ is alkyl, cycloalkyl, alkenyl; R₂ and R₃ are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R₂R₃ together form 3-7 membered alkylene or alkynylene bridge; R₂R₃ and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R₁ = R₂ = Me) was prepared and tested as a pesticide against *Spodoptera littoralis*, *Heliothis virescens*, *Plutella xylostella* caterpillars, *Diabrotica balteata*, and *Tetranychus urticae*. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 34 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:1156785 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:431573
 TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties
 INVENTOR(S): Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Tobler, Hans; Cassayre, Jerome; Quaranta, Laura
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004067534 | A1 | 20040812 | WO 2004-XC899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004067534 | A1 | 20040812 | WO 2004-EP899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2309 | A 20030131 |
| | | | WO 2004-EP899 | 20040130 |

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I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO₂, OSO₂, NRSO₂, bond; X-Y is CH:CH, CH₂CH₂; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R₁ is alkyl, cycloalkyl, alkenyl; R₂ and R₃ are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R₂R₃ together form 3-7 membered alkylene or alkynylene bridge; R₂R₃ and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R₁ = R₂ = Me) was

prepared and tested as a pesticide against *Spodoptera littoralis*, *Heliothis virescens*, *Plutella xylostella* caterpillars, *Diabrotica balteata*, and *Tetranychus urticae*. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 35 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156784 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431572

TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties

INVENTOR(S): Pitterna, Thomas; ~~Maierfisch~~, Peter; Murphy Kessabi, Fiona; Tobler, Hans; ~~Cassayre~~, Jerome; Quaranta, Laura

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 112 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

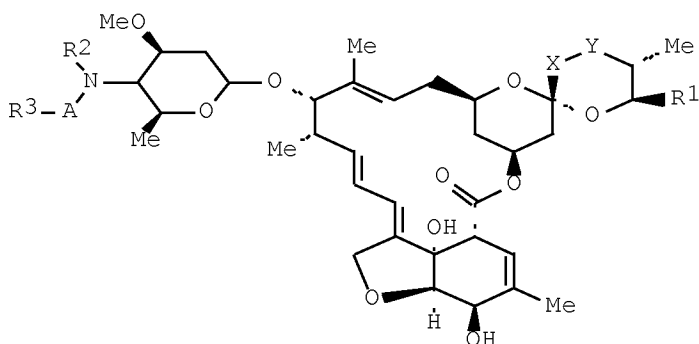
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004067534 | A1 | 20040812 | WO 2004-XB899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004067534 | A1 | 20040812 | WO 2004-EP899 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2309 | A 20030131 |
| | | | WO 2004-EP899 | 20040130 |

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I

AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO₂, OSO₂, NRSO₂, bond; X-Y is CH:CH, CH₂CH₂; R is H, alkyl,

hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R1 is alkyl, cycloalkyl, alkenyl; R2 and R3 are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R2R3 together form 3-7 membered alkylene or alkynylene bridge; R2R3 and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R1 = R2 = Me) was prepared and tested as a pesticide against *Spodoptera littoralis*, *Heliothis virescens*, *Plutella xylostella* caterpillars, *Diabrotica balteata*, and *Tetranychus urticae*. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 36 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156783 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431571

TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties

INVENTOR(S): Pitterna, Thomas; ~~Maiefisch, Peter~~; Murphy Kessabi, Fiona; Tobler, Hans; ~~Cassayre, Jerome~~; Quaranta, Laura

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 112 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

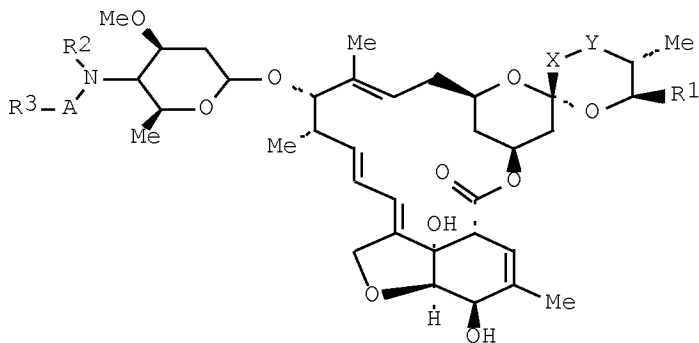
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|--|------------|
| ----- | ---- | ----- | ----- | ----- |
| WO 2004067534 | A1 | 20040812 | WO 2004-XA899 | 20040130 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | |
| WO 2004067534 | A1 | 20040812 | WO 2004-EP899 | 20040130 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2309 | A 20030131 |
| | | | WO 2004-EP899 | 20040130 |

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AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO₂, OSO₂, NRSO₂, bond; X-Y is CH:CH, CH₂CH₂; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R₁ is alkyl, cycloalkyl, alkenyl; R₂ and R₃ are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R₂R₃ together form 3-7 membered alkylene or alkynylene bridge; R₂R₃ and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R₁ = R₂ = Me) was prepared and tested as a pesticide against *Spodoptera littoralis*, *Heliothis virescens*, *Plutella xylostella* caterpillars, *Diabrotica balteata*, and *Tetranychus urticae*. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 37 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156782 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431570

TITLE: Preparation of avermectin and avermectin monosaccharide derivatives, substituted in the 4''- or 4'-position, as insecticides and acaricides

INVENTOR(S): Pitterna, Thomas; Murphy Kessabi, Fiona; Maierfisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

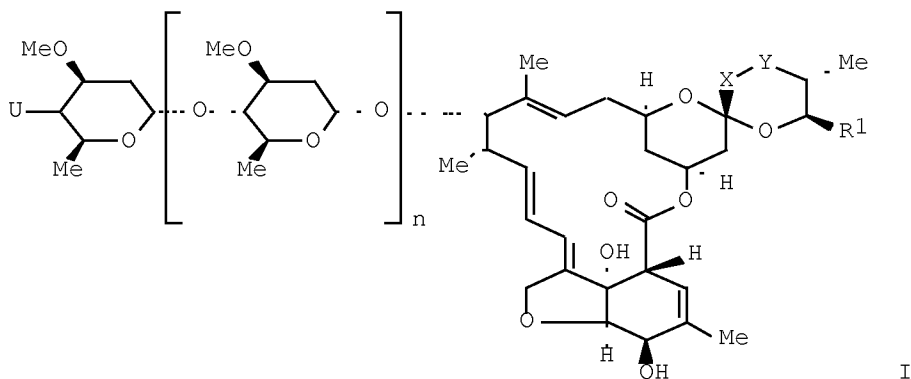
FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2004067543 | A1 | 20040812 | WO 2004-XC890 | 20040130 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | |
| WO 2004067543 | A1 | 20040812 | WO 2004-EP890 | 20040130 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, | | | |

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
 PRIORITY APPLN. INFO.: GB 2003-2308 A 20030131
 WO 2004-EP890 20040130

GI



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AB The title compds. I [U = N(R₂)OR₃ or N⁺(O⁻):C(RE)RZ); n = 0 or 1; XY = CH:CH or CH₂CH₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂, R₃ = Q, C(O)ZQ or CN; RZ, RE = Q, C(O)ZQ or CN; RZ and RE together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR₄; Q = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R₄ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl or C₂-C₈ alkenyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 38 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156781 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:431569

TITLE: Preparation of avermectin and avermectin monosaccharide derivatives, substituted in the 4''- or 4'-position, as insecticides and acaricides

INVENTOR(S): Pitterna, Thomas; Murphy Kessabi, Fiona; Maiefisch, Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

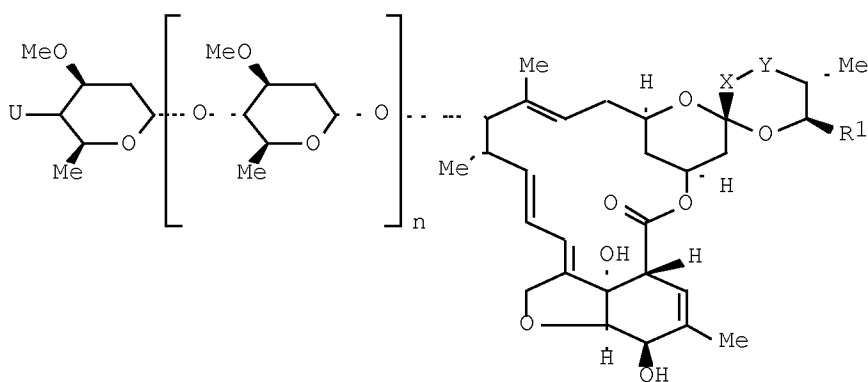
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

WO 2004067543 A1 20040812 WO 2004-XB890 20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
WO 2004067543 A1 20040812 WO 2004-EP890 20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
PRIORITY APPLN. INFO.: GB 2003-2308 A 20030131
WO 2004-EP890 20040130
GI



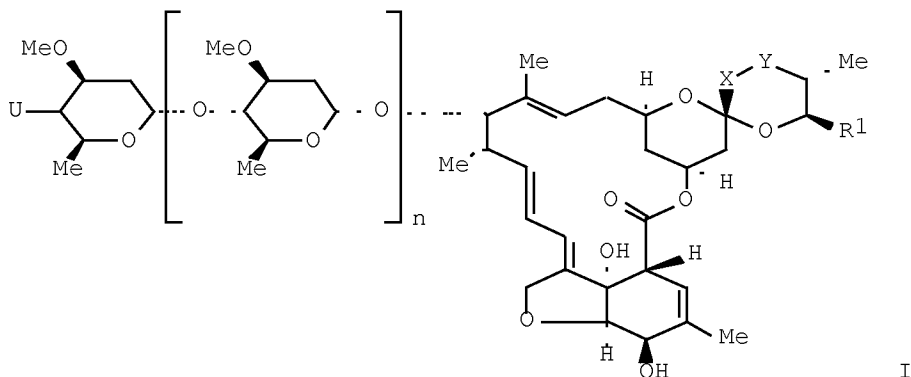
AB The title compds. I [U = N(R₂)OR₃ or N⁺(O⁻):C(RE)RZ); n = 0 or 1; XY = CH:CH or CH₂CH₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂, R₃ = Q, C(O)ZQ or CN; RZ, RE = Q, C(O)ZQ or CN; RZ and RE together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR₄; Q = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R₄ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl or C₂-C₈ alkenyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 39 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:1156780 HCAPLUS Full-text
DOCUMENT NUMBER: 141:431568
TITLE: Preparation of avermectin and avermectin
monosaccharide derivatives, substituted in the 4''- or
4'-position, as insecticides and acaricides
INVENTOR(S): Pitterna, Thomas; Murphy Kessabi, Fiona; Maiefisch,
Peter; Cassayre, Jerome; Quaranta, Laura; Jung, Pierre
PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
SOURCE: PCT Int. Appl., 80 pp.

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004067543 | A1 | 20040812 | WO 2004-XA890 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| WO 2004067543 | A1 | 20040812 | WO 2004-EP890 | 20040130 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2308 | A 20030131 |
| | | | WO 2004-EP890 | 20040130 |

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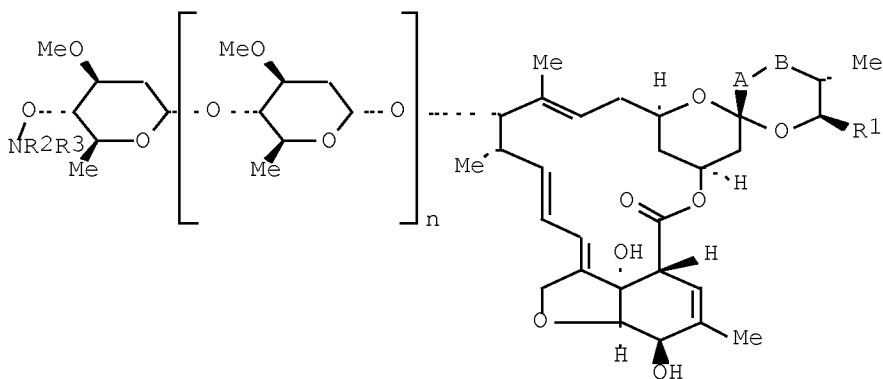
AB The title compds. I [U = N(R₂)OR₃ or N⁺(O⁻):C(RE)RZ); n = 0 or 1; XY = CH:CH or CH₂CH₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂, R₃ = Q, C(O)ZQ or CN; RZ, RE = Q, C(O)ZQ or CN; RZ and RE together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR₄; Q = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R₄ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl or C₂-C₈ alkenyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 40 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:1156764 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431565
 TITLE: Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides
 INVENTOR(S): Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maiefisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
 SOURCE: PCT Int. Appl., 76 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004069852 | A1 | 20040819 | WO 2004-XB972 | 20040203 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| WO 2004069852 | A1 | 20040819 | WO 2004-EP972 | 20040203 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2548 | A 20030204 |
| | | | WO 2004-EP972 | 20040203 |

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AB The title compds. I wherein AB is CH:CH or CH₂CH₂; n is 0 or 1; R₁, is C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ and R₄ are C(:Y)Q, or C(:Y)OQ; R₂NR₃ are a three- to seven-membered ring; R₃R₄ are C(R₄)R₅, where R₄ and R₅ are Q, C(:Y)Q, or C(:Y)OQ; Y is O or S; Q is H or (un)substituted C₁-C₁₂ alkyl, or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as insecticides and acaricides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 41 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156763 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431564

TITLE: Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides

INVENTOR(S): Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maiefisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

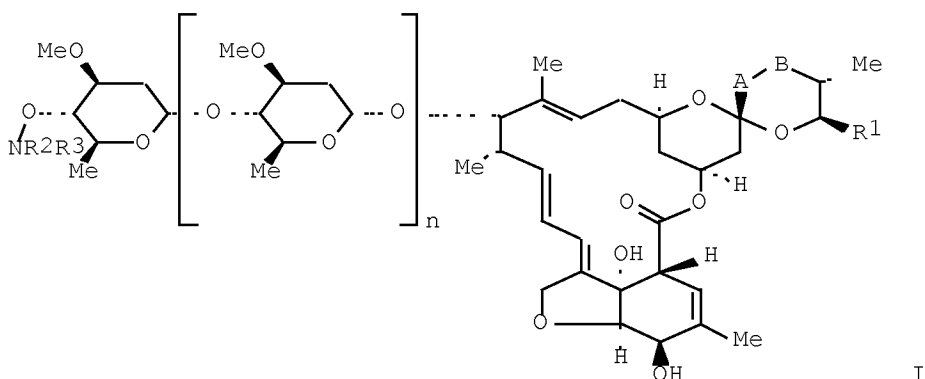
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2004069852 | A1 | 20040819 | WO 2004-XA972 | 20040203 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| WO 2004069852 | A1 | 20040819 | WO 2004-EP972 | 20040203 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | | | |
| RW: | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2548 | A 20030204 |
| | | | WO 2004-EP972 | 20040203 |

GI



AB The title compds. I wherein AB is CH:CH or CH₂CH₂; n is 0 or 1; R₁, is C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ and R₄ are C(:Y)Q, or C(:Y)OQ; R₂NR₃ are a three- to seven-membered ring; R₃R₄ are C(R₄)R₅, where R₄ and R₅ are Q, C(:Y)Q, or C(:Y)OQ; Y is O or S; Q is H or (un)substituted C₁-C₁₂ alkyl, or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as insecticides and acaricides. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L32 ANSWER 42 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:1156762 HCAPLUS Full-text

DOCUMENT NUMBER: 141:431563

TITLE: Preparation of avermectin B1 and avermectin B1 monosaccharide derivatives having an alkoxymethyl substituent in the 4"- or 4'-position as pesticides

INVENTOR(S): Maiefisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Pitterna, Thomas; Hueter, Ottmar Franz; Jung, Pierre

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2004056844 | A1 | 20040708 | WO 2003-XA14613 | 20031219 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, | | | | |

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

WO 2004056844 A1 20040708 WO 2003-EP14613 20031219

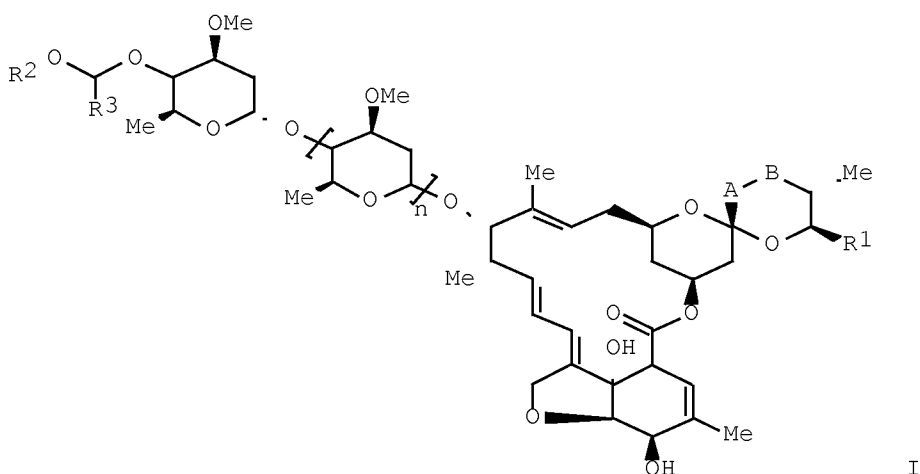
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 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
 NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2011102303 A 20110526 JP 2010-286151 20101222

PRIORITY APPLN. INFO.: GB 2002-29804 A 20021220
 WO 2003-EP14613 20031219
 JP 2004-561378 A3 20031219

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AB Avermectin B1 and avermectin B1 monosaccharide derivs. I, wherein n is 0-1; A-B is CH=CH, CH₂-CH₂; R₁ is alkyl, cycloalkyl, alkenyl; R₂ is substituted alkyl, alkenyl, alkynyl, cycloalkenyl; halocycloalkyl, alkoxy, alkoxyalkoxy, cycloalkoxy, haloalkoxy, alkylthio, cycloalkylthio, haloalkylthio, alkylsulfinyl, cycloalkylsulfinyl, haloalkylsulfinyl, halocycloalkylsulfinyl, alkylsulfonyl, cycloalkylsulfonyl, halocycloalkylsulfonyl, alkylsulfonyl, aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy; R₃ is alkyl, alkyl which is optionally substituted and, where applicable, to E/Z isomers, mixts. of E/Z isomers and/or tautomers, in each case in free form or in salt form; a process for preparing and using these compds. and their tautomers; pesticides whose active compound is selected from these compds. and their tautomers; and a process for preparing these compds. and compns., and the use of these compds. and compns. In the area of pest control, compds. I are active ingredients exhibiting valuable preventive and/or curative activity with a very

advantageous biocidal spectrum and a very broad spectrum, even at low rates of concentration, while being well tolerated by warm-blooded animals, fish and plants (no data). They are, surprisingly, equally suitable for controlling both plant pests and ecto- and endo-parasites in humans and more especially in productive livestock, domestic animals and pets (no data). They are effective against all or individual development stages of normally sensitive animal pests, but also of resistant animal pests, such as insects and representatives of the order Acarina, nematodes, cestodes and trematodes, while at the same time protecting useful organisms (no data). The insecticidal or acaricidal activity of the active ingredients according to the invention may manifest itself directly, i.e. in the mortality of the pests, which occurs immediately or only after some time, for example during molting, or indirectly, for example in reduced oviposition and/or hatching rate, good activity corresponding to a mortality of at least 50 to 60 % (no data). Thus, I (n = 1, A-B is CH=CH, R2 is Bn, R3 is H) was prepared as pesticide. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 43 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:796496 HCAPLUS Full-text

DOCUMENT NUMBER: 141:290547

TITLE: Fungicidal compositions comprising
N-phenyl-N-[4-(4-pyridyl)-2-pyrimidin-2-yl]amine
derivatives

INVENTOR(S): Ackerman, Peter; Stierli, Daniel; Jung, Pierre Marcel
Joseph; ~~Maienfish, Peter; Cederbaum, Fredrik Emil~~
Malcolm; Wenger, Jean-Frederic

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: Brit. UK Pat. Appl., 112 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

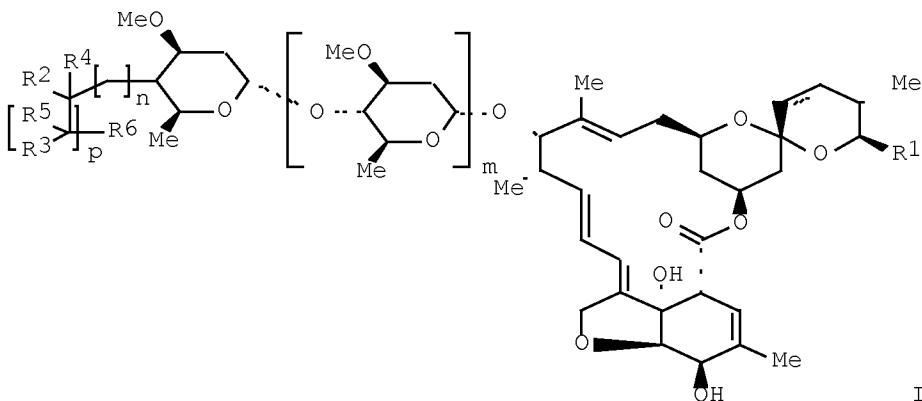
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--------|------------|-----------------|------------|
| ----- | ---- | ----- | ----- | ----- |
| GB 2399754 | A | 20040929 | GB 2004-3967 | 20040223 |
| PRIORITY APPLN. INFO.: | | | GB 2003-7269 | A 20030328 |
| OTHER SOURCE(S): | MARPAT | 141:290547 | | |
| GI | | | | |

Page 64 of 81

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 2006517554 T 20060727 JP 2006-501719 20040203
 US 20060094600 A1 20060504 US 2005-544281 20050803
 PRIORITY APPLN. INFO.: GB 2003-2547 A 20030204
 WO 2004-EP977 W 20040203
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 141:186452
 GI



I

AB The title compds. I, wherein the bond of atoms C22 and C23 is a single or double bond; m is 0 or 1; n is 0, 1 or 2; p is 0 or 1; R1 is C1-C12 alkyl, C3-C8 cycloalkyl or C2-C12 alkenyl; R2, R4 is H, C1-C12 alkyl, C1-C12 haloalkyl or C1-C12 hydroxyalkyl; or together with R4 form with the carbon to which they are bound a three- to seven-membered ring; R3 is H, C1-C12 alkyl, halogen, C1-C2 haloalkyl, CN, NO2 or C3-C8 cycloalkyl; R5, R6 is H, C1-C12 alkyl, CN, NO2, OH, SH, halogen, C1-C2 haloalkyl or C3-C8 cycloalkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, are prepared as acaricides and insecticides.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 45 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:681635 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:186451

TITLE: Preparation of avermectins substituted in the 4'- and 4"-positions as insecticides and acaricides

INVENTOR(S): Cassayre, Jerome; Tobler, Hans; Pitterna, Thomas; Maienfisch, Peter; Murphy Kessabi, Fiona; Quaranta, Laura; Hueter, Ottmar Franz

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

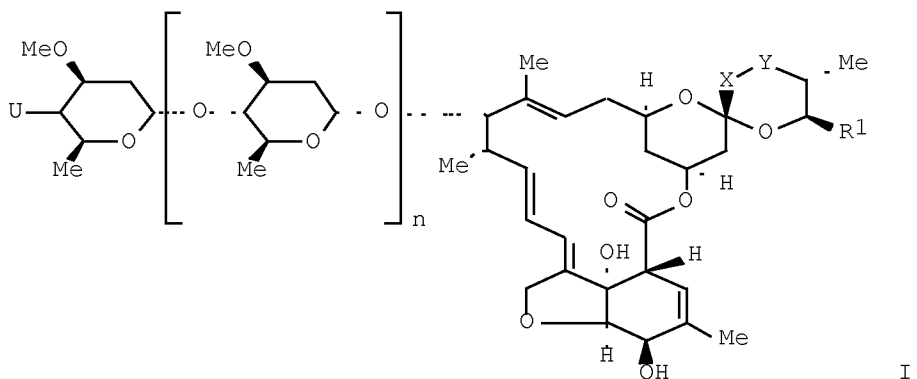
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004069852 | A1 | 20040819 | WO 2004-EP972 | 20040203 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| WO 2004069852 | A1 | 20040819 | WO 2004-XA972 | 20040203 |
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| AT 483721 | T | 20101015 | AT 2004-707515 | 20040203 |
| ES 2349531 | T3 | 20110104 | ES 2004-707515 | 20040203 |
| US 20060154879 | A1 | 20060713 | US 2005-544274 | 20050803 |
| US 7378399 | B2 | 20080527 | | |
| PRIORITY APPLN. INFO.: | | | GB 2003-2548 | A 20030204 |
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| ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT | | | | |
| OTHER SOURCE(S): MARPAT 141:186451 | | | | |
| GI | | | | |

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 WO 2004067543 A1 20040812 WO 2004-XB890 20040130
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 EP 1592699 B1 20061227
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 2006516584 T 20060706 JP 2006-501687 20040130
 AT 349457 T 20070115 AT 2004-706638 20040130
 PT 1592699 E 20070430 PT 2004-706638 20040130
 ES 2280022 T3 20070901 ES 2004-706638 20040130
 US 20060140997 A1 20060629 US 2005-543637 20050728
 US 7678740 B2 20100316
 PRIORITY APPLN. INFO.: GB 2003-2308 A 20030131
 WO 2004-EP890 20040130
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 141:169385
 GI



I

AB The title compds. I [U = N(R₂)OR₃ or N⁺(O⁻):C(RE)R₂]; n = 0 or 1; XY = CH:CH or CH₂CH₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂, R₃ = Q, C(O)ZQ or CN; R₂, R₃ = Q, C(O)ZQ or CN; R₂ and R₃ together are a 3-7 membered alkylene or alkenylene bridge, which is unsubstituted or mono- to tri-substituted; Z = bond, O or NR₄; Q = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl, or heterocyclyl, which are unsubstituted or 1-5 substituted; R₄ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl or C₂-C₈ alkenyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof] are prepared as insecticides and acaricides. [This abstract record is one of 4 records for

this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 47 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:648527 HCAPLUS Full-text

DOCUMENT NUMBER: 141:174408

TITLE: Preparation of macrolide avermectin monosaccharide derivatives having pesticidal properties

INVENTOR(S): Pitterna, Thomas; ~~Maiaenfisch~~, Peter; Murphy Kessabi, Fiona; Tobler, Hans; ~~Cassayre~~, Jerome; Quaranta, Laura

PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.

SOURCE: PCT Int. Appl., 112 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

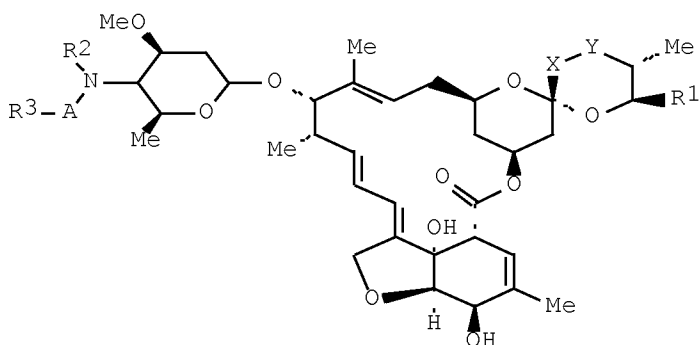
FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

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|---------------|------|----------|--|----------|
| WO 2004067534 | A1 | 20040812 | WO 2004-EP899 | 20040130 |
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| AU 2004207073 | A1 | 20040812 | AU 2004-207073 | 20040130 |
| AU 2004207073 | B2 | 20100916 | | |
| CA 2513573 | A1 | 20040812 | CA 2004-2513573 | 20040130 |
| WO 2004067534 | A1 | 20040812 | WO 2004-XA899 | 20040130 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | |
| WO 2004067534 | A1 | 20040812 | WO 2004-XB899 | 20040130 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | |
| WO 2004067534 | A1 | 20040812 | WO 2004-XC899 | 20040130 |
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| WO 2004067534 | A1 | 20040812 | WO 2004-XD899 | 20040130 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | |
| WO 2004067534 | A1 | 20040812 | WO 2004-XE899 | 20040130 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI | |

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|---|----|----------|------------------|------------|
| EP 1594878 | A1 | 20051116 | EP 2004-706630 | 20040130 |
| EP 1594878 | B1 | 20080604 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| BR 2004006875 | A | 20060103 | BR 2004-6875 | 20040130 |
| CN 1751049 | A | 20060322 | CN 2004-80004369 | 20040130 |
| CN 100410259 | C | 20080813 | | |
| JP 2006518347 | T | 20060810 | JP 2006-501692 | 20040130 |
| NZ 541252 | A | 20080530 | NZ 2004-541252 | 20040130 |
| AT 397610 | T | 20080615 | AT 2004-706630 | 20040130 |
| RU 2329268 | C2 | 20080720 | RU 2005-127321 | 20040130 |
| PT 1594878 | E | 20080910 | PT 2004-706630 | 20040130 |
| ES 2308140 | T3 | 20081201 | ES 2004-706630 | 20040130 |
| IL 169598 | A | 20100517 | IL 2004-169598 | 20040130 |
| IN 2005DN03034 | A | 20070525 | IN 2005-DN3034 | 20050707 |
| ZA 2005005545 | A | 20060426 | ZA 2005-5545 | 20050708 |
| MX 2005007923 | A | 20050930 | MX 2005-7923 | 20050726 |
| US 20060205595 | A1 | 20060914 | US 2006-543643 | 20060405 |
| PRIORITY APPLN. INFO.: | | | GB 2003-2309 | A 20030131 |
| | | | WO 2004-EP899 | W 20040130 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:174408
GI



AB Macrolide avermectin monosaccharide I, wherein A is C(Z), OC(Z), SC(Z), NRC(Z), SO₂, OSO₂, NRSO₂, bond; X-Y is CH:CH, CH₂CH₂; R is H, alkyl, hydroxyalkyl, cycloalkyl, alkenyl, alkynyl, Ph, Bn, acyl, ketone; R₁ is alkyl, cycloalkyl, alkenyl; R₂ and R₃ are independently H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocycle, 2-cyano-2-alkoxyimino; R₂R₃ together form 3-7 membered alkylene or alkynylene bridge; R₂R₃ and A together are :N+:N-; were prepared and tested as having pesticides. Thus, I (X-Y = CH:CH, R = sec-Bu, R₁ = R₂ = Me) was prepared and tested as a pesticide against *Spodoptera littoralis*, *Heliothis virescens*, *Plutella xylostella* caterpillars, *Diabrotica balteata*, and *Tetranychus urticae*. [This abstract record is one of 6 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

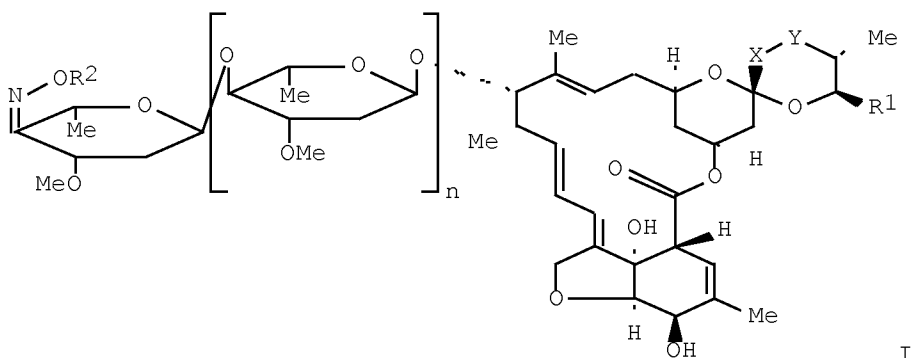
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 48 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:648287 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:169382
 TITLE: Preparation of avermectin and avermectin
 monosaccharide derivatives substituted in the 4''- or
 4'-position as insecticides and acaricides
 INVENTOR(S): Pitterna, Thomas; ~~Maiefisch, Peter~~; Murphy Kessabi,
 Fiona; ~~Cassayre, Jerome~~; Quaranta, Laura; Jung, Pierre
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.
 SOURCE: PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 8
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2004066725 | A2 | 20040812 | WO 2004-EP900 | 20040130 |
| WO 2004066725 | A3 | 20041118 | | |
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WO 2004066725 A3 20041118
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PT 1592700 E 20080620 PT 2004-706681 20040130
ES 2306982 T3 20081116 ES 2004-706681 20040130
US 20060166824 A1 20060727 US 2005-543638 20050728
US 7632820 B2 20091215
PRIORITY APPLN. INFO.: GB 2003-2310 A 20030131
WO 2004-EP900 20040130
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 141:169382
GI



AB The title compds. I [XY = CH:CH or CH₂CH₂; Z = C(O), C(S) or S(O)₂; R₁ = C₁-C₁₂ alkyl, C₃-C₈ cycloalkyl or C₂-C₁₂ alkenyl; R₂ = R₃Z, R₃OZ, R₄ or ZNR₆R₇; Q = O or NR₅; R₃, R₄ = H, C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl, C₂-C₁₂ alkynyl, C₃-C₁₂ cycloalkyl, C₅-C₁₂ cycloalkenyl, aryl or heterocyclyl; R₅ = H, C₁-C₈ alkyl, hydroxyalkyl, C₃-C₈ cycloalkyl, C₂-C₈ alkenyl, C₂-C₈ alkynyl, Ph or benzyl; R₆, R₇ = H, (un)substituted C₁-C₁₂ alkyl, C₂-C₁₂ alkenyl or, etc.] are prepared as acaricides and insecticides. If appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof, in each case in free form or in salt form, are used. [This abstract record is one of 7 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 49 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:546518 HCAPLUS Full-text

DOCUMENT NUMBER: 141:89321
 TITLE: Preparation of avermectin B1 and avermectin B1 monosaccharide derivatives having an alkoxymethyl substituent in the 4"- or 4'-position as pesticides
 INVENTOR(S): Maiefisch, Peter; Murphy Kessabi, Fiona; Cassayre, Jerome; Quaranta, Laura; Pitterna, Thomas; Hueter, Ottmar Franz; Jung, Pierre
 PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.
 SOURCE: PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

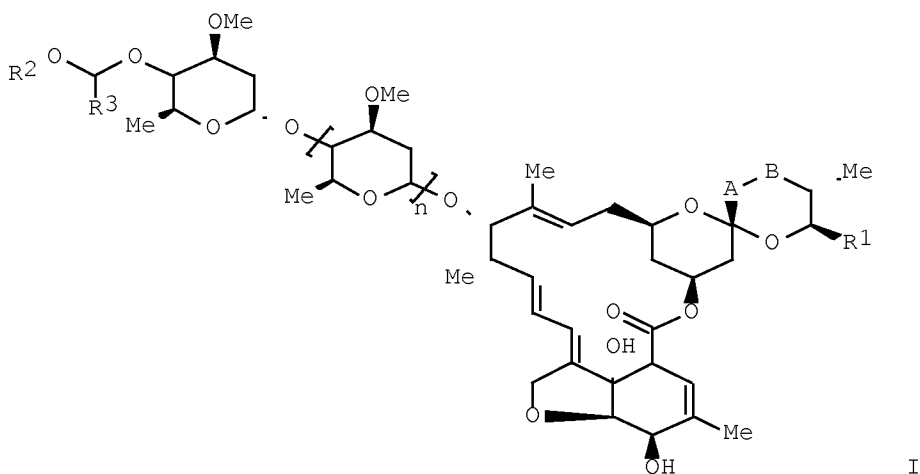
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|------|----------|--|----------|
| WO 2004056844 | A1 | 20040708 | WO 2003-EP14613 | 20031219 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | |
| RW: | | | BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | |
| CA 2507774 | A1 | 20040708 | CA 2003-2507774 | 20031219 |
| CA 2507774 | C | 20110614 | | |
| WO 2004056844 | A1 | 20040708 | WO 2003-XA14613 | 20031219 |
| W: | | | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | |
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| AU 2003302284 | A1 | 20040714 | AU 2003-302284 | 20031219 |
| AU 2003302284 | B2 | 20090723 | | |
| EP 1581546 | A1 | 20051005 | EP 2003-810843 | 20031219 |
| R: | | | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | |
| BR 2003017601 | A | 20051129 | BR 2003-17601 | 20031219 |
| CN 1738828 | A | 20060222 | CN 2003-80108857 | 20031219 |
| JP 2006515849 | T | 20060608 | JP 2004-561378 | 20031219 |
| RU 2330857 | C2 | 20080810 | RU 2005-122943 | 20031219 |
| IL 169092 | A | 20101230 | IL 2003-169092 | 20031219 |
| IN 2005DN02316 | A | 20070302 | IN 2005-DN2316 | 20050601 |
| IN 222215 | A1 | 20080815 | | |
| MX 2005006036 | A | 20050818 | MX 2005-6036 | 20050606 |
| ZA 2005004353 | A | 20060329 | ZA 2005-4353 | 20060106 |
| US 20060148729 | A1 | 20060706 | US 2006-539274 | 20060309 |
| US 7737261 | B2 | 20100615 | | |

| | | | | |
|------------------------|----|----------|-----------------|-------------|
| US 20100210574 | A1 | 20100819 | US 2010-768280 | 20100427 |
| JP 2011102303 | A | 20110526 | JP 2010-286151 | 20101222 |
| PRIORITY APPLN. INFO.: | | | GB 2002-29804 | A 20021220 |
| | | | JP 2004-561378 | A3 20031219 |
| | | | WO 2003-EP14613 | W 20031219 |
| | | | US 2006-539274 | A1 20060309 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 141:89321

GI



AB Avermectin B1 and avermectin B1 monosaccharide derivs. I, wherein n is 0-1; A-B is CH=CH, CH₂-CH₂; R₁ is alkyl, cycloalkyl, alkenyl; R₂ is substituted alkyl, alkenyl, alkynyl, cycloalkenyl; halocycloalkyl, alkoxy, alkoxyalkoxy, cycloalkoxy, haloalkoxy, alkylthio, cycloalkylthio, haloalkylthio, alkylsulfinyl, cycloalkylsulfinyl, haloalkylsulfinyl, halocycloalkylsulfinyl, alkylsulfonyl, cycloalkylsulfonyl, haloalkylsulfonyl, halocycloalkylsulfonyl, aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy; R₃ is alkyl, alkyl which is optionally substituted and, where applicable, to E/Z isomers, mixts. of E/Z isomers and/or tautomers, in each case in free form or in salt form; a process for preparing and using these compds. and their tautomers; pesticides whose active compound is selected from these compds. and their tautomers; and a process for preparing these compds. and compns., and the use of these compds. and compns. In the area of pest control, compds. I are active ingredients exhibiting valuable preventive and/or curative activity with a very advantageous biocidal spectrum and a very broad spectrum, even at low rates of concentration, while being well tolerated by warm-blooded animals, fish and plants (no data). They are, surprisingly, equally suitable for controlling both plant pests and ecto- and endo-parasites in humans and more especially in productive livestock, domestic animals and pets (no data). They are effective against all or individual development stages of normally sensitive animal pests, but also of resistant animal pests, such as insects and representatives of the order Acarina, nematodes, cestodes and trematodes, while at the same time protecting useful organisms (no data).

The insecticidal or acaricidal activity of the active ingredients according to the invention may manifest itself directly, i.e. in the mortality of the pests, which occurs immediately or only after some time, for example during molting, or indirectly, for example in reduced oviposition and/or hatching rate, good activity corresponding to a mortality of at least 50 to 60 % (no data). Thus, I (n = 1, A-B is CH=CH, R2 is Bn, R3 is H) was prepared as pesticide. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

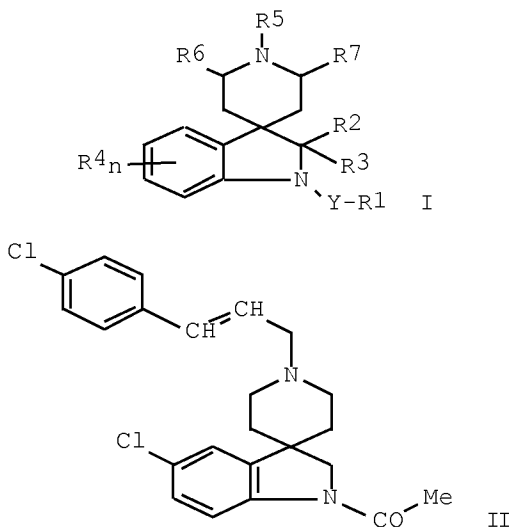
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 50 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:1006983 HCAPLUS Full-text
DOCUMENT NUMBER: 140:59528
TITLE: Preparation of spiroindolinepiperidines as
insecticides, acaricides, nematocides, and
molluscicides
INVENTOR(S): Hughes, David John; Worthington, Paul Anthony;
Russell, Charles Adam; Clarke, Eric Daniel; Peace,
James Edward; Ashton, Mark Richard; Coulter, Thomas
Stephen; Roberts, Richard Spurring; Molleyres,
Louis-Pierre; Cederbaum, Fredrik; Cassayre,
Jerome; Maiefisch, Peter
PATENT ASSIGNEE(S): Syngenta Limited, UK; Syngenta Participations A.-G.
SOURCE: PCT Int. Appl., 144 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2003106457 | A1 | 20031224 | WO 2003-GB2424 | 20030604 |
| W: | | | | |
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| GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, | | | | |
| LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, | | | | |
| PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, | | | | |
| UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: | | | | |
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| FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, | | | | |
| BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2487494 | A1 | 20031224 | CA 2003-2487494 | 20030604 |
| CA 2487494 | C | 20110719 | | |
| AU 2003240071 | A1 | 20031231 | AU 2003-240071 | 20030604 |
| AU 2003240071 | B2 | 20090910 | | |
| EP 1515969 | A1 | 20050323 | EP 2003-732685 | 20030604 |
| EP 1515969 | B1 | 20100825 | | |
| R: | | | | |
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| IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| BR 2003012129 | A | 20050329 | BR 2003-12129 | 20030604 |
| CN 1662535 | A | 20050831 | CN 2003-813854 | 20030604 |

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| JP 2006501170 | T | 20060112 | JP 2004-513289 | 20030604 |
| NZ 536734 | A | 20060331 | NZ 2003-536734 | 20030604 |
| CN 1944431 | A | 20070411 | CN 2006-10131898 | 20030604 |
| EP 1880996 | A1 | 20080123 | EP 2007-19400 | 20030604 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR, AL, LT, LV, MK | | | | |
| AP 1850 | A | 20080630 | AP 2005-3198 | 20030604 |
| CN 101318958 | A | 20081210 | CN 2008-10135870 | 20030604 |
| CN 101318958 | B | 20110615 | | |
| CN 101574084 | A | 20091111 | CN 2009-10134582 | 20030604 |
| AT 478870 | T | 20100915 | AT 2003-732685 | 20030604 |
| PT 1515969 | E | 20101129 | PT 2003-732685 | 20030604 |
| ES 2351188 | T3 | 20110201 | ES 2003-732685 | 20030604 |
| KR 1013428 | B1 | 20110214 | KR 2004-7020364 | 20030604 |
| IN 2004DN03738 | A | 20091204 | IN 2004-DN3738 | 20041125 |
| MX 2004012349 | A | 20050225 | MX 2004-12349 | 20041208 |
| ZA 2004010058 | A | 20050905 | ZA 2004-10058 | 20041213 |
| US 20060106045 | A1 | 20060518 | US 2005-517957 | 20050811 |
| PRIORITY APPLN. INFO.: | | | GB 2002-13715 | A 20020614 |
| | | | CN 2003-813854 | A3 20030604 |
| | | | EP 2003-732685 | A3 20030604 |
| | | | WO 2003-GB2424 | W 20030604 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 140:59528
 GI



AB Insecticidal, acaricidal, nematicidal or molluscicidal spiroindolinepiperidines I [Y = bond, CO, CS, S, S(O), SO₂; R₁ = H, (un)substituted alkyl, CO₂H, acyl, CONH₂, aryl, heteroaryl, OH, CN, alkenyl, alkynyl, cycloalkyl, heterocyclyl, SH, NH₂; R₂, R₃ = H, halogen, CN, (un)substituted alkyl, alkoxy, aryl, CONH₂; R₂R₃ = O, alkylene, heteroalkylene; R₄ = halogen, NO₂, CN, (un)substituted alkyl, alkenyl,

alkynyl, CO₂H, acyl, CONH₂, cycloalkyl, heteroaryl, heterocyclyl, alkoxy, aryloxy, heteroaryloxy, alkylthio, NH₂; R₄₂ = atoms required to complete a carbocyclic or heterocyclic ring; n = 0-4; R₅ = (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl, alkoxy, aryloxy, CO₂H, acyl; R₆, R₇ = H, halogen, (un)substituted alkyl, aryl; R₆R₇ = CH₂, CH:CH, CH₂CH₂] were prepared. Although the methods of preparation are not claimed, 18 example preps. and characterization data for .apprx.250 examples of I are included. Thus, 1-tert-butoxycarbonyl-4-piperidinone was treated with [MeOCH₂PPh₃]Cl to give 1-tert.-butoxycarbonyl-4-methoxymethylenepiperidine which was cyclized with 4-ClC₆H₄NHNH₂, N-acetylated, deblocked, and alkylated with 4-ClC₆H₄CH:CHCH₂Cl to give I [YR₁ = Ac, R₂, R₃, R₆, R₇ = H, R₄ = 5-Cl, R₅ = 4-ClC₆H₄CH:CHCH₂], which gave >80% inhibition of *Spodoptera littoralis* on cotton at 200 ppm.

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 51 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2003:454037 HCAPLUS Full-text

DOCUMENT NUMBER: 139:32086

TITLE: Preparation of fungicidal
N-phenyl-N-[4-(4-pyridyl)-2-pyrimidin-2-yl]amine
derivatives

INVENTOR(S): Ackermann, Peter; Stierli, Daniel; Jung, Pierre Marcel
Joseph; Maierfisch, Peter; Cederbaum, Fredrik Emil
Malcolm; Wenger, Jean-Frederic

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 108 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

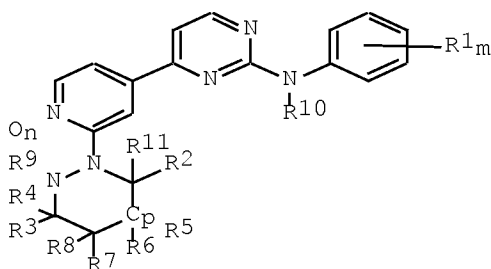
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|-----------------|----------|
| WO 2003047347 | A1 | 20030612 | WO 2002-IB5148 | 20021205 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | |
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| CA 2460180 | A1 | 20030612 | CA 2002-2460180 | 20021205 |
| CA 2460180 | C | 20110125 | | |
| AU 2002351125 | A1 | 20030617 | AU 2002-351125 | 20021205 |
| BR 2002013176 | A | 20040914 | BR 2002-13176 | 20021205 |
| EP 1471786 | A1 | 20041103 | EP 2002-785838 | 20021205 |
| EP 1471786 | B1 | 20061227 | | |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | |
| AT 349162 | T | 20070115 | AT 2002-785838 | 20021205 |

ES 2274113 T3 20070516 ES 2002-785838 20021205
 US 20050085496 A1 20050421 US 2004-497974 20040603
 US 7205301 B2 20070417
 PRIORITY APPLN. INFO.: GB 2001-29391 A 20011207
 WO 2002-IB5148 W 20021205
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
 OTHER SOURCE(S): MARPAT 139:32086
 GI



I

AB The title compds. I [m = 0, 1, 2 or 3 ; n, p = 0 or 1; R1 = halo, (un)substituted alkyl, alkoxy, alkenyloxy, alkynyloxy, thioalkyl or aryl, COOH, alkoxy carbonyl, CONH2, etc.; R2-8, R11 = H, (un)substituted alkyl, alkylthio, aryl, etc.; R9 = H, (un)substituted alkyl, alkenyl, alkynyl, etc.; R10 = H, alkyl, alkenyl, alkynyl, CH2OH, CH2SH, etc.] are prepared as fungicides.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 52 OF 52 HCAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1996:546334 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 125:195643

ORIGINAL REFERENCE NO.: 125:36647a, 36650a

TITLE: 4-Aryl- and 4-heteroaryl-5-oxopyrazoline derivatives having pesticidal properties

INVENTOR(S): Boeger, Manfred; Maiefisch, Peter; Cederbaum, Fredrik; Pitterna, Thomas; Nadkarni, Pradeep Jeevaji; Ekkundi, Vadiraj Subbanna; Kulkarni, Surendra Umesh

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: PCT Int. Appl., 101 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

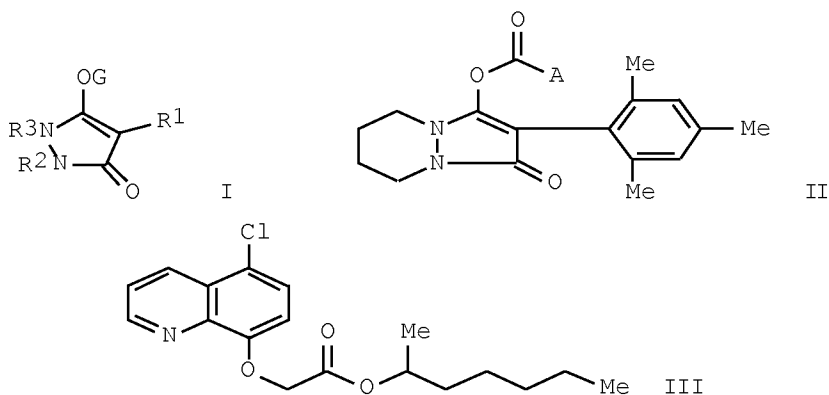
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| WO 9621652 | A1 | 19960718 | WO 1995-EP5152 | 19951229 |

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 RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

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| CA 2210286 | A1 | 19960718 | CA 1995-2210286 | 19951229 |
| AU 9644353 | A | 19960731 | AU 1996-44353 | 19951229 |
| EP 804422 | A1 | 19971105 | EP 1995-943223 | 19951229 |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT, IE | | | | |
| CN 1175248 | A | 19980304 | CN 1995-197652 | 19951229 |
| JP 10512248 | T | 19981124 | JP 1995-521407 | 19951229 |
| IN 1996DE00065 | A | 20050311 | IN 1996-DE65 | 19960110 |
| ZA 9600243 | A | 19960819 | ZA 1996-243 | 19960112 |
| BR 9600088 | A | 19980127 | BR 1996-88 | 19960112 |
| PRIORITY APPLN. INFO.: | | | CH 1995-108 | A 19950113 |
| | | | WO 1995-EP5152 | W 19951229 |

OTHER SOURCE(S): MARPAT 125:195643
 GI



AB The invention relates to novel, pesticidally effective title compds. I [R1 = (un)substituted Ph, pyridinyl, or naphthyl; R2R3 = atoms to form (un)saturated, (un)substituted, (poly)cyclic system with optional addnl. non-terminal heteroatoms; G = -COA or -SO2B; A = (un)substituted alkyl, cycloalkyl, cycloalkoxy, adamantyl, naphthyl, etc.; B = (halo)alk(en/yn)yl, (halo)alkoxy, (halo)cycloalkyl, (un)substituted benzyl or naphthyl, substituted or cyclic amino]. Also disclosed are their compns., use as insecticides, acaricides, or herbicides, especially in crops of useful plants, and selective herbicidal compns. comprising compds. I with certain quinoline, pyrazole, or triazole-based safeners. For example, reaction of 3-hydroxy-4-mesityl-5-oxo-1,2-tetramethylenepyrazoline with (2-cyanoethyl)methylcarbamoyl chloride in THF in the presence of Et3N gave title compound II [A = NMeCH2CH2CN]. The latter at 400 ppm gave >80% control of mixed stages of *Tetranychus urticae*. The similarly prepared compound II [A = CMe2OCOBU-tert] at 2 kg/ha preemergence gave complete control of *Avena* and *Setaria*. Useful safeners, e.g. for maize or cereals, include compound III.

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS

US 10/581174

REFERENCE COUNT:

3

RECORD (12 CITINGS)

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L10         STR
L11         2 SEA SUB=L9 SSS FUL L10

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L17         17020 SEA ABB=ON PLU=ON MOTH+OLD/CV OR ANTIMOTH OR MOTH
L20         9 SEA ABB=ON PLU=ON L17 AND L14
L21         8 SEA ABB=ON PLU=ON L20 NOT L12
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           OR PD=<JANUARY 12, 2004)
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L23         72 SEA ABB=ON PLU=ON CASSAYRE J?/AU
L24         37 SEA ABB=ON PLU=ON MOLLEYRES L?/AU
L25         163 SEA ABB=ON PLU=ON MAIENFISCH P?/AU
L26         76 SEA ABB=ON PLU=ON CEDERBAUM F?/AU
L27         49 SEA ABB=ON PLU=ON L23 AND (L24 OR L25 OR L26)
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